

Module description: Data Intelligence and Processes	
Module Code	w.MA.XX.DIP.22HS
ECTS Credits	3
Language of Instruction/Examination	German
Module Description	This module covers the increasingly important methods of data intelligence (business analytics). This includes, among others, artificial intelligence models. In addition, the module deepens knowledge and skills in the area of process analysis, design, and management (with a focus on the financial industry). In addition, sourcing challenges and solutions are discussed.
Organizational Unit	Institut für Wealth & Asset Management
Module Coordinator	Christoph Kley
Deputy Module Coordinator	Anita Sigg
Program and Specialization	<ul style="list-style-type: none"> Banking and Finance
Legal Framework	Academic Regulations MSc in Banking and Finance dated 29.09.2011, Appendix to the Academic Regulations for the degree program in Banking and Finance, first adopted on 28.08.2012
Module Category	Module Type Compulsory
Prerequisite Knowledge	General knowledge of process analysis and design.
Contribution to Program Learning Objectives (by the concerned Module)	<ul style="list-style-type: none"> Professional Competence Methodological Competence Social Competence Self-Competence
Contribution to Program Learning Objectives	Professional Competence <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> Problem-Solving & Critical Thinking Scientific Methodology Work Methods, Techniques, and Procedures Information Literacy Creativity & Innovation Social Competence <ul style="list-style-type: none"> Written Communication Oral Communication Teamwork & Conflict Management Intercultural Insight & Ability to Change Perspective Self-Competence <ul style="list-style-type: none"> Self-Management & Self-Reflection Ethical & Social Responsibility Learning & Change

Module description: Data Intelligence and Processes

Module Learning Objectives	Students... <ul style="list-style-type: none">• are able to analyze, design, and manage processes.• understand the advantages and disadvantages of RPA (robotic process automation).• are able to understand sourcing challenges and solutions in the Swiss market.• can apply data intelligence tools in practice.• can use an LLM.																																										
Module Content	<ul style="list-style-type: none">• Process analysis and design (including RPA)• Sourcing in the financial sector• Fundamental methods of data intelligence: (1) Data wrangling 1, (2) Data wrangling 2, (3) Regression and simulation, (4) LLM and RAG																																										
Links to other modules	This module is linked to the following modules: <ul style="list-style-type: none">• w.MA.XX.BMT.22HS																																										
Digital Learning Resources	<ul style="list-style-type: none">• Case Studies (with Key)																																										
Methods of Instruction	<ul style="list-style-type: none">• Lecture• Exercises• Case Studies• Interactive Instruction			Social Settings Used: <ul style="list-style-type: none">• Pair Work• Individual Work• Group Work																																							
Type of Instruction	<table><tr><td></td><td>Classroom Instruction</td><td>Guided Self-Study</td><td colspan="2">Autonomous Self-Study</td></tr><tr><td>Lecture</td><td>28 h</td><td>10 h</td><td colspan="2"></td></tr><tr><td>Excercise</td><td>-</td><td>-</td><td colspan="2"></td></tr><tr><td>Project Work</td><td>-</td><td>-</td><td colspan="2"></td></tr><tr><td>Seminar</td><td>-</td><td>-</td><td colspan="2"></td></tr><tr><td>Total</td><td>28 h</td><td>10 h</td><td colspan="2">52 h</td></tr></table>						Classroom Instruction	Guided Self-Study	Autonomous Self-Study		Lecture	28 h	10 h			Excercise	-	-			Project Work	-	-			Seminar	-	-			Total	28 h	10 h	52 h									
	Classroom Instruction	Guided Self-Study	Autonomous Self-Study																																								
Lecture	28 h	10 h																																									
Excercise	-	-																																									
Project Work	-	-																																									
Seminar	-	-																																									
Total	28 h	10 h	52 h																																								
Performance Assessment	<table><tr><td colspan="2">End-of-module exam</td><td>Form</td><td>Length (min.)</td><td>Weighting</td></tr><tr><td colspan="2">-</td><td></td><td></td><td></td></tr><tr><td colspan="2">Permitted Resources</td><td colspan="3"></td></tr><tr><td colspan="5"></td></tr><tr><td colspan="2">Others</td><td>Assessment</td><td>Format</td><td>Length (min.)</td><td>Weighting</td></tr><tr><td colspan="2">Written Assignment</td><td>Grade</td><td>Einzelarbeit</td><td>0</td><td>50.00</td></tr><tr><td colspan="2">Written Assignment</td><td>Grade</td><td>Gruppenarbeit</td><td>0</td><td>50.00</td></tr></table>					End-of-module exam		Form	Length (min.)	Weighting	-					Permitted Resources										Others		Assessment	Format	Length (min.)	Weighting	Written Assignment		Grade	Einzelarbeit	0	50.00	Written Assignment		Grade	Gruppenarbeit	0	50.00
End-of-module exam		Form	Length (min.)	Weighting																																							
-																																											
Permitted Resources																																											
Others		Assessment	Format	Length (min.)	Weighting																																						
Written Assignment		Grade	Einzelarbeit	0	50.00																																						
Written Assignment		Grade	Gruppenarbeit	0	50.00																																						
Classroom Attendance Requirement	None																																										
Compulsory Reading																																											
Recommended Reading																																											
Comments																																											