

Examination Regulations for the Master's Degree Programmes "Information Systems" and "Information Systems (Part-time)" FH Aachen - Faculty of Electrical Engineering and Information Technology, Faculty of Business Studies Start of Studies from Winter Semester 2024/25 of 29 April 2024

Based on Section 2 para. 4 sentence 1 in conjunction with Section 64 of the Higher Education Act of the State of North Rhine-Westphalia (Higher Education Act - HG) of 16 September 2014 (GV. NRW. p. 547), last amended by Article 2 of the Act of 5 December 2023 (GV. NRW. p. 1278), and the General Examination Regulations for the Bachelor's and Master's degree programmes at FH Aachen of 16 August 2023 (FH-Mitteilung No. 63/2023), last amended by the Amendment Regulations dated 17 April 2024 (FH Mitteilung No. 21/2024), the Faculty of Electrical Engineering and Information Technology as well as the Faculty of Business Studies have issued the following Examination Regulations:

Preliminary Remark

These Examination Regulations supplement and concretise the provisions of the General Examination Regulations (APO, Allgemeine Prüfungsordnung). The Examination Regulations are structured in accordance with the APO. The APO applies exclusively to any missing paragraphs.

Part 1 | Objective of Studies, Final Degree

Section 1 | Scope of the Examination Regulations

These Examination Regulations apply in addition to the General Examination Regulations (APO) of FH Aachen - as amended from time to time - for the Master's degree programmes "Information Systems" and "Information Systems (Part-time)".

Section 2 | Objective of Studies

(1) not applicable here (cf. Section 2 para. 1 APO)

(2) not applicable here (cf. Section 2 para. 2 APO)

(3) As part of the consecutive Master's degree programmes "Information Systems" and "Information Systems (Part-time)", students acquire in-depth knowledge and skills in the field of Information Systems after completing a professionally qualifying degree.

The Master's degree programmes "Information Systems" and "Information Systems (Part-time)" are application- and research-oriented and are aimed at all graduates of Bachelor's degree programmes with an information technology and business administration field of study, such as Information Systems, Informatics, Digital Business and Business Studies.

The objectives of the Master's degree programmes "Information Systems" and "Information Systems (Part-time)" are:
Graduates develop and expand dynamic skills (especially in the design and use of information systems) of companies within the framework of Digital Transformation.
Graduates are able to analyse, assess and change the information system and process landscape of companies from an economic and technological perspective.
Graduates shape the Digital Transformation process in intercultural and interdisciplinary teams as specialists or managers.
Graduates analyse, assess and communicate the practical implications of Digital Transformation for companies and society, particularly with regard to sustainable economic activity.
Graduates apply scientific methods to develop evidence-based new findings and apply them in a design-oriented manner.

Section 3 | Module Structure and Credit Point System, Study Plan, Module Descriptions

(1) not applicable here (cf. Section 3 para. 1 APO)

(2) not applicable here (cf. Section 3 para. 2 APO)

(3) not applicable here (cf. Section 3 para. 3 APO)

(4) The sequence of studies for the Master's degree programmes "Information Systems" and "Information Systems (Part-time)" can be found in the study plans (Annexes 1 and 2).

(5) The target module matrix is attached as Annex 4.

(6) not applicable here (cf. Section 3 para. 6 APO)

(7) not applicable here (cf. Section 3 para. 7 APO)

Section 4 | Forms of Teaching and Learning | not applicable here (cf. Section 4 APO)

Part 2 | Structure of Studies

Section 5 | Academic Degree, Master's Examination

FH Aachen awards the academic degree "Master of Science" (M.Sc.) upon successful completion of the Master's examination.

The Master's examination consists of the module examinations of the Master's course of study as well as the Master's thesis followed by a colloquium.

Section 6 | Standard Period of Study, Scope and Structure of Studies, Language of Instruction and Examination

(1) The standard period of study for the Master's degree programme "Information Systems" is four semesters with a course load of 120 credit points (CP). The standard period of study for the Master's degree programme "Information Systems (Part-time)" is six semesters with a course load of 120 credit points (CP).

Studies can be started in both the summer or winter semester.

(2) not applicable here (cf. Section 6 para. 2 APO)

(3) not applicable here (cf. Section 6 para. 3 APO)

(4) The language of instruction and of examination is English. Insofar as the language of instruction or of examination for individual modules derogates from this, it is specifically stated in the study plan.

(5) not applicable here (cf. Section 6 para. 5 APO)

(6) not applicable here (cf. Section 6 para. 6 APO)

(7) The range of courses that can be chosen within the framework of compulsory elective modules is set out in the Compulsory Electives Catalogue (Annex 3) in conjunction with the faculty's announcement of the current compulsory elective modules on offer.

The faculty may approve additional modules within the deadlines set out in Section 3 para. 6 APO.

Section 7 | Mobility Semester

The Master's degree programme "Information Systems" includes a mobility semester in the third semester, the Master's degree programme "Information Systems (Part-time)" in the fifth semester. This can take the form of a curricular semester abroad or a practical semester. Sections 8 to 10 apply depending on the type of mobility semester offered or chosen.

Section 8 | Studying Abroad

(1) In the Master's degree programme "Information Systems", the third semester is intended as a curricular semester abroad. In the Master's degree programme "Information Systems (Part-time)", the fifth semester is intended as a curricular semester abroad.

(2) The application for admission to the curricular semester abroad must be submitted to the Examination Board no later than six weeks before the start.

Admission to the curricular semester abroad requires proof of a study place in accordance with Section 8 para. 2 letter a) APO.

(3) not applicable here (cf. Section 8 para. 3 APO)

(4) not applicable here (cf. Section 8 para. 4 APO)

(5) The curricular semester abroad is evaluated with a total of 30 credit points (CP). Of these, 5 credit points are awarded in the area of general competences for the organisation of the stay abroad. The remaining credit points are awarded if studies are continued at the host university and the modules specified in the Learning Agreement have been completed.

The credits earned at the host university are not recorded individually, but only as a lump sum under the heading "Curricular Semester Abroad" in the Transcript of Records.

In the case of modules not passed during the curricular semester abroad, comparable replacement modules are prescribed by the Examination Board.

(6) not applicable here (cf. Section 8 para. 6 APO)

Section 9 | Practical Semester

(1) The following are eligible for the practical semester:

1. companies/institutions whose activities require, or appear to make good sense regarding, the employment of graduates of the Master's degree programme "Information Systems", and
2. who have the appropriate professionally and didactically qualified staff to supervise the student in the company.

(2) The practical semester is scheduled in the third semester of the Master's degree programme "Information Systems" and in the fifth semester of the Master's degree programme "Information Systems (Part-time)". It comprises 20 weeks in each case.

(3) not applicable here (cf. Section 9 para. 3 APO)

(4) The Examination Board of the Faculty of Electrical Engineering and Information Technology decides on admission to the practical semester.

The application for admission to the practical semester must be accompanied by the following documents:

- if applicable, a proposal for a supervisor in accordance with Section 9 para. 5 APO.

(5) not applicable here (cf. Section 9 para. 5 APO)

(6) Further requirements in accordance with Section 9 para. 6 sentence 2 no. 2 APO are

- regular attendance at the accompanying and evaluation sessions associated with the practical semester;
- written report (approx. 10 pages) on the progress and results of the activities carried out during the practical semester.

Section 10 | Project Semester | not applicable here (cf. Section 10 APO)

Part 3 | Admission

Section 11 | University Entrance Qualification, Pre-study Practical Training (Admission to Bachelor's Studies |

not applicable here (cf. Section 11 APO)

Section 12 | First Professionally Qualifying University Degree (Admission to Master's Studies) |

not applicable here (cf. Section 12 APO)

Section 13 | German Language Skills

(1) not applicable here (cf. Section 13 para. 1 APO)

(2) In accordance with Section 13 para. 2 no.1 APO, no knowledge of the German language is required for admission to the Master's degree programmes "Information Systems" and "Information Systems (Part-time)"; however, basic knowledge of German is recommended.

(3) not applicable here (cf. Section 13 para. 3 APO)

(4) not applicable here (cf. Section 13 para. 4 APO)

Section 14 | Further Admission and Registration Requirements |

not applicable here (cf. Section 14 APO)

Section 15 | Registration Obstacles |

not applicable here (cf. Section 15 APO)

Section 16 | Admission to Individual Courses

(1) not applicable here (cf. Section 16 para. 1 APO)

(2) not applicable here (cf. Section 16 para. 2 APO)

(3) not applicable here (cf. Section 16 para. 3 APO)

(4) not applicable here (cf. Section 16 para. 4 APO)

(5) Admission to individual courses is regulated in accordance with Section 16 para. 5 APO in separate Faculty Regulations.

Section 17 | Early Master's Modules |

not applicable here (cf. Section 17 APO)

Part 4 | Examination Board, Examiners, Recognition

Section 18 | Examination Board

(1) The Examination Board of the Faculty of Electrical Engineering and Information Technology is responsible for the tasks assigned in accordance with Section 18 APO.

(2) not applicable here (cf. Section 18 para. 2 APO)

(3) not applicable here (cf. Section 18 para. 3 APO)

(4) not applicable here (cf. Section 18 para. 4 APO)

(5) not applicable here (cf. Section 18 para. 5 APO)

(6) not applicable here (cf. Section 18 para. 6 APO)

(7) not applicable here (cf. Section 18 para. 7 APO)

(8) not applicable here (cf. Section 18 para. 8 APO)

(9) not applicable here (cf. Section 18 para. 9 APO)

Section 19 | Examiners/Observers

(1) not applicable here (cf. Section 19 para. 1 APO)

(2) not applicable here (cf. Section 19 para. 2 APO)

(3) not applicable here (cf. Section 19 para. 3 APO)

(4) Unless otherwise stated in the study plan, oral examinations that do not fall under Section 19 (5) APO shall be conducted by an examiner in the presence of an expert observer.

(5) not applicable here (cf. Section 19 para. 5 APO)

(6) not applicable here (cf. Section 19 para. 6 APO)

(7) not applicable here (cf. Section 19 para. 7 APO)

(8) not applicable here (cf. Section 19 para. 8 APO)

Section 20 | Recognition of Study and Examination Achievements |

not applicable here (cf. Section 20 APO)

Part 5 | Organising and Conducting Examinations

Section 21 | Organisation of Module Examinations |

not applicable here (cf. Section 21 APO)

Section 22 | Examination Dates, Conducting Examinations

(1) All end-of-semester module examinations in the Master's degree programmes "Information Systems" and "Information Systems (Part-time)" are offered

- twice a year for the modules for which the Faculty of Business Studies is responsible (module numbers 7xxxx),
- three times a year for the modules for which the Faculty of Electrical Engineering and Information Technology is responsible (module numbers 5xxxx).

Section 22 para. 1 sentence 2 APO applies to examinations during the semester.

(2) not applicable here (cf. Section 22 para. 2 APO)

(3) not applicable here (cf. Section 22 para. 3 APO)

(4) not applicable here (cf. Section 22 para. 4 APO)

(5) not applicable here (cf. Section 22 para. 5 APO)

Section 23 | Registration and Admission to Examinations

(1) not applicable here (cf. Section 23 para. 1 APO)

(2) not applicable here (cf. Section 23 para. 2 APO)

(3.1) If more than the required number of compulsory elective modules have been completed, the compulsory elective modules relevant for the overall grade shall be determined in derogation of Section 23 para. 3 APO by means of a written declaration by the student when registering for the colloquium.

(3.2) In derogation of Section 23 para. 3 APO, the following applies: If a compulsory elective module is not passed in the first or second attempt, the candidate has the opportunity to choose another compulsory elective module that has not yet been chosen as compensation.

(4.1) If indicated in the study plan, admission to a module examination (both during the semester and at the end of the semester) or partial examination depends on the completion of ungraded preliminary examination achievements within the module. Such preliminary examination achievements can take the form of written homework assignments, for example. The specific requirements are stated in the module description.

(4.2) Admission to an examination can be made dependent on regular and active attendance at the associated course (compulsory attendance) by specifying this in the study plan if the learning objective of the course cannot be achieved in any other way. In this case, the criteria for active attendance as well as the offer or form of any substitute dates or substitute achievements must be specified in the module description. The permitted period of absence is 0 course dates for practical trainings and 0 course dates for seminars. If the permitted period of absence is verifiably exceeded for a valid reason that would entitle the student to withdraw from an examination in accordance with Section 31 para. 1 APO and if the total period of absence from the course does not exceed 30% of the course dates, the substitute achievements specified in the module description may be provided or the offered substitute dates taken.

(5) not applicable here (cf. Section 23 para. 5 APO)

(6) not applicable here (cf. Section 23 para. 6 APO)

Section 24 | Compensation for Disadvantages |

not applicable here (cf. Section 24 APO)

Part 6 | Overall Grade, Assessment, Retaking an Examination, Withdrawal, Breaches of Regulations

Section 25 | Formation of the Overall Grade

The Master's examination is passed if all of its elements listed in § 5 have been passed or completed.

The weighting depends on the respective underlying credit points.

Section 26 | Assessment of Examination Achievements |

not applicable here (cf. Section 26 APO)

Section 27 | Assessment/Bonus Points |

not applicable here (cf. Section 27 APO)

Section 28 | Announcement of the Assessment of Examination Achievements |

not applicable here (cf. Section 28 APO)

Section 29 | Retaking Examinations |

not applicable here (cf. Section 29 APO)

Section 30 | Improvement Attempt |

not applicable here (cf. Section 30 APO)

Section 31 | Failure to Attend, Withdrawal, Cheating, Breach of Regulations |

not applicable here (cf. Section 31 APO)

Section 32 | Invalidity of Examinations |

not applicable here (cf. Section 32 APO)

Part 7 | Methods of Examination/Practical Project

Section 33 | Written Examinations, Supplementary Oral Examination

(1) not applicable here (cf. Section 33 para. 1 APO)

(2) not applicable here (cf. Section 33 para. 2 APO)

(3) After the third attempt at a written examination in a module for which the Faculty of Electrical Engineering and Information Technology is responsible (module numbers 5xxxx), a candidate may take a supplementary oral examination in accordance with Section 33 para. 3 APO before a grade of "not sufficient" (fail) is awarded. The number of possible supplementary examinations is limited to one over the entire course of studies. The supplementary examination usually takes place within one week of being requested.

Section 34 | Oral Examinations |

not applicable here (cf. Section 34 APO)

Section 35 | Other Methods of Examination

(1) not applicable here (cf. Section 35 para. 1 APO)

(2) In the module examinations of the Faculty of Electrical Engineering and Information Technology (module numbers 5xxxx), take home examinations are not permitted as a method of examination.

(3) not applicable here (cf. Section 35 para. 3 APO)

(4) not applicable here (cf. Section 35 para. 4 APO)

(5) In the module examinations of the Faculty of Electrical Engineering and Information Technology (module numbers 5xxxx), course notes are not permitted as a method of examination.

(6) In the module examinations of the Faculty of Electrical Engineering and Information Technology (module numbers 5xxxx), portfolio examinations are not permitted as a method of examination.

(7) not applicable here (cf. Section 35 para. 7 APO)

(8) not applicable here (cf. Section 35 para. 8 APO)

Section 36 | Conducting Examinations Using Electronic Media |

not applicable here (cf. Section 36 APO)

Section 37 | Practical Project |

not applicable here (cf. Section 37 APO)

Part 8 | Final Thesis, Colloquium

Section 38 | Final Thesis (Bachelor's Thesis, Master's Thesis) |

not applicable here (cf. Section 38 APO)

Section 39 | Admission to the Final Thesis

(1) Students who have earned at least 50 credit points are admitted to the final thesis in the Master's degree programmes "Information Systems" and "Information Systems (Part-time)".

(2) not applicable here (cf. Section 39 para. 2 APO)

(3) not applicable here (cf. Section 39 para. 3 APO)

(4) not applicable here (cf. Section 39 para. 4 APO)

(5) not applicable here (cf. Section 39 para. 5 APO)

Section 40 | Issuing and Working on the Final Thesis |

not applicable here (cf. Section 40 APO)

Section 41 | Submission and Assessment of the Final Thesis |

not applicable here (cf. Section 41 APO)

Section 42 | Plagiarism Check |

not applicable here (cf. Section 42 APO)

Section 43 | Colloquium

(1) not applicable here (cf. Section 43 para. 1 APO)

(2) not applicable here (cf. Section 43 para. 2 APO)

(3) not applicable here (cf. Section 43 para. 3 APO)

(4) The colloquium comprises three credit points and lasts approx. 30 - 60 minutes. In the colloquium, the student presents his or her final thesis in a 30-minute presentation. During the colloquium, questions from the examiners should be answered that are primarily orientated towards the subject area of the final thesis.

(5) not applicable here (cf. Section 43 para. 5 APO)

Part 9 | Final Documents

Section 44 | Certificate, Award Certificate, Diploma Supplement |

not applicable here (cf. Section 44 APO)

Section 45 | Inspection of Examination Records |

not applicable here (cf. Section 45 APO)

Part 10 | Entry into Force, Transitional Provisions

Section 46 | Entry into Force, Publication, Transitional Provisions

(1) These Examination Regulations shall enter into force on the day after their publication in the FH Aachen Gazette (FH-Mitteilungen).

(2) It applies to all students commencing their studies in the Master's degree programmes "Information Systems" or "Information Systems (Part-time)" for the first time from the winter semester 2024/25.

(3) Issued on the basis of the resolutions of the Faculty Council of the Faculty of Electrical Engineering and Information Technology of 18 January 2024 and 7 March 2024, the resolutions of the Faculty Council of the Faculty of Business Studies of 22 January 2024 and 9 April 2024 and the legal review by the Rectorate in accordance with the resolution of 24 April 2024.

Annex 1

Study Plan

Master's Degree Programme "Information Systems" (4 Semesters)

1st Semester if starting in the winter semester

2nd Semester if starting in the summer semester

Module no.	Module Name	PM/WM	LP	SWS					Prerequisites*				MP	Bem
				V	Ü	P	A	Σ	TNV	TNB	ZLV	PVL		
58116	Digital Transformation Management	PM	6	2	1	1		4					Pr	1
New	Systems Integration	PM	6	4				4					Pr	
	Compulsory Elective Module 1	WM	6	see respective module in the compulsory elective catalogue										
	Compulsory Elective Module 2	WM	6	see respective module in the compulsory elective catalogue										
58117	Interdisciplinary Project Seminar	PM	6	4				4					Pr	1
	Total		30											

2nd Semester if starting in the winter semester

1st Semester if starting in the summer semester

Module no.	Module Name	PM/WM	LP	SWS					Prerequisites*				MP	Bem
				V	Ü	P	A	Σ	TNV	TNB	ZLV	PVL		
58209	Enterprise Modelling and Organization	PM	6	2	1	1		4					Pr	1
New	Process Analytics and Automation	PM	6	4				4					Pr	
	Compulsory Elective Module 3	WM	6	see respective module in the compulsory elective catalogue										
	Compulsory Elective Module 4	WM	6	see respective module in the compulsory elective catalogue										
	Information Systems Research Methods	PM	6	4				4					Pr	1
	Total		30											

3rd Semester

Module no.	Module Name	PM/WM	LP	SWS					Prerequisites*				MP	Bem
				V	Ü	P	A	Σ	TNV	TNB	ZLV	PVL		
	Practical Semester or Semester Abroad		30											
	Total		30											

4th Semester

Module no.	Module Name	PM/WM	LP	SWS					Prerequisites*				MP	Bem
				V	Ü	P	A	Σ	TNV	TNB	ZLV	PVL		
	Master's Thesis	PM	27								x			

Annex 2

Study Plan

Master's Degree Programme "Information Systems (Part-time)" (6 semesters)

1st Semester if starting in the winter semester

2nd Semester if starting in the summer semester

Module no.	Module Name	PM/WM	LP	SWS					Prerequisites*				MP	Bem.
				V	Ü	P	A	Σ	TNV	TNB	ZLV	PVL		
58116	Digital Transformation Management	PM	6	2	1	1		4					Pr	1
	Compulsory Elective Module 1	WM	6	see respective module in the compulsory elective catalogue										
58117	Interdisciplinary Project Seminar	PM	6	4				4					Pr	1
	Total		18											

2nd Semester if starting in the winter semester

1st Semester if starting in the summer semester

Module no.	Module Name	PM/WM	LP	SWS					Prerequisites*				MP	Bem.
				V	Ü	P	A	Σ	TNV	TNB	ZLV	PVL		
New	Enterprise Modeling and Organization	PM	6	2	1	1		4					Pr	1
	Compulsory Elective Module 2	WM	6	see respective module in the compulsory elective catalogue										
	Total		12											

3rd Semester if starting in the winter semester

4th Semester for students starting in the summer semester

Module no.	Module Name	PM/WM	LP	SWS					Prerequisites*				MP	Bem.
				V	Ü	P	A	Σ	TNV	TNB	ZLV	PVL		
New	Systems Integration	PM	6	4				4					Pr	
	Compulsory Elective Module 3	WM	6	see respective module in the compulsory elective catalogue										
	Total		12											

4th Semester for students starting in the winter semester

3rd Semester for students starting in the summer semester

Module no.	Module Name	PM/WM	LP	SWS					Prerequisites*				MP	Bem.
				V	Ü	P	A	Σ	TNV	TNB	ZLV	PVL		
New	Process Analytics and Automation	PM	6	4				4					Pr	
	Compulsory Elective Module 4	WM	6	see respective module in the compulsory elective catalogue										
	Information Systems Research Methods	PM	6	4				4					Pr	1

	Total		18											
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5th Semester

Module no.	Module Name	PM/WM	LP	SWS					Prerequisites*				MP	Bem.
				V	Ü	P	A	Σ	TNV	TNB	ZLV	PVL		
	Practical Semester or Semester Abroad	PM	30											
	Total		30											

6th Semester

Module no.	Module Name	PM/WM	LP	SWS					Prerequisites*				MP	Bem.
				V	Ü	P	A	Σ	TNV	TNB	ZLV	PVL		
	Master's Thesis	PM	27								x			
	Colloquium	PM	3								x			
	Total		30											

*** If a cross is placed in one of these columns, there are corresponding prerequisites within the module in question. Further details can be found in the module description.**

See Annex 1 for an explanation of the abbreviations.

Annex 3

Compulsory Elective Catalogue

Not all of the modules listed below are offered every semester. The Faculty Council may approve additional modules. The compulsory elective modules currently on offer will be announced in due time before the start of the semester.

Module no.	Module Name	PM/WM	LP	SWS					Prerequisites*				MP	Note	
				V	Ü	P	A	Σ	TNV	TNB	ZLV	PVL			
Area: Data Science															
77602	Business Intelligence	WM	6	2			2						Pr	1, 3	
58636	Data Science and Machine Learning 1	WM	6	2	1	1					x		x	Pr	1
58637	Data Science and Machine Learning 2	WM	6	2	1	1					x			sPr	1
58103	Mathematical algorithms and programming	WM	6	2	1	1							x	sPr	1, 3
Area: Digital Business															
58208	Business Models and Systems Development Management	WM	6	2	1	1							x	Pr	1, 3
New	Digital Business Transformation	WM	6	1	1	2								sPr	
New	Innovation, Marketing and Sales	WM	6	2	1	1								Pr	
Area: Information Systems Engineering															
58661	Efficient IT operation	WM	6	2	1	1					x		x	Pr	1, 3
58642	Embedded Systems	WM	6	2	1	1					x		x	sPr	1, 3
New	Information Systems Quality Management	WM	6	2	1	1								Pr	1
58644	Information security and data protection	WM	6	2	1	1							x	Pr	1, 3
58106	Virtualisation and cloud computing	WM	6	2	1	1							x	Pr	1, 3
Area: International Business															
77611	Cross-Cultural Competencies	WM	6				4							sPr	
77612	Finance for Global Managers	WM	6		1	3								Pr	
77609	Governance and Responsibility	WM	6				4							sPr	
77610	International Economics	WM	6				4							sPr	
77615	International Supply Chain Management	WM	6				4							sPr	
77601	International Management	WM	6				4							sPr	
77604	International and digital controlling	WM	6				4							sPr	

*** If a cross is placed in one of these columns, there are corresponding prerequisites within the module in question. Further details can be found in the module description.**

See Annex 1 for an explanation of the abbreviations.

Annex 4

Target Module Matrix

Sem .	Module no.	Module Name	English	Credit Points	Degree Programme Objectives Master's Degree Programmes "Information Systems" and "Information Systems (Part-time)"				
					Graduates develop and expand dynamic skills (especially in the design and use of information systems) of companies within the framework of Digital Transformation.	Graduates are able to analyse, assess and change the information system and process landscape of companies from an economic and technological perspective.	Graduates shape the Digital Transformation process in intercultural and interdisciplinary teams as specialists or managers.	Graduates analyse, assess and communicate the practical implications of Digital Transformation for companies and society, particularly with regard to sustainable economic activity.	Graduates apply scientific methods to develop evidence-based new findings and apply them in a design-oriented manner.
1.	58116	Digital Transformation Management	x	6	x			x	
		Systems Integration	x	6	x	x	x		
		Compulsory Elective Module 1		6					
		Compulsory Elective Module 2		6					
	58117	Interdisciplinary Project Seminar	x	6			x		
2.	58209	Enterprise Modeling and Organization	x	6	x	x		x	
		Process Analytics and Automation	x	6	x	x	x		
		Compulsory Elective Module 3		6					
		Compulsory Elective Module 4		6					
		Information Systems Research Methods	x	6					x
3.		Practical Semester or Semester Abroad		(x)	(x)	(x)	(x)		
			30						
4.		Master's Thesis		27	(x)	(x)	(x)	(x)	x

Sem .	Module no.	Module Name	English	Credit Points	Degree Programme Objectives Master's Degree Programmes "Information Systems" and "Information Systems (Part-time)"				
					Graduates develop and expand dynamic skills (especially in the design and use of information systems) of companies within the framework of Digital Transformation.	Graduates are able to analyse, assess and change the information system and process landscape of companies from an economic and technological perspective.	Graduates shape the Digital Transformation process in intercultural and interdisciplinary teams as specialists or managers.	Graduates analyse, assess and communicate the practical implications of Digital Transformation for companies and society, particularly with regard to sustainable economic activity.	Graduates apply scientific methods to develop evidence-based new findings and apply them in a design-oriented manner.
		Colloquium		3					
Frequency of Mention in Compulsory Modules					4	3	3	2	2
					(2)	(2)	(2)	(2)	(0)
Compulsory elective modules	Focus Area: Data Science								
	77602	Business Intelligence		6	x	x			
	58636	Data Science and Machine Learning 1	x	6	x	x			
	58637	Data Science and Machine Learning 2	x	6	x	x			
	58103	Mathematical Algorithms and Programming		6	x				
	Focus Area: Digital Business								
		NEW Digital Business Transformation	x	6	x	x	x	x	
		NEW Innovation, Marketing and Sales	x	6	x			x	
	58206	Management and Business Models		6	x			x	
	Focus Area: Information Systems Engineering								
	58661	Efficient IT Operation		6	x				
	58642	Embedded Systems		6	x				
		NEW Information Systems Quality Management	x	6	x	x			

Sem .	Module no.	Module Name	English	Credit Points	Degree Programme Objectives Master's Degree Programmes "Information Systems" and "Information Systems (Part-time)"					
					Graduates develop and expand dynamic skills (especially in the design and use of information systems) of companies within the framework of Digital Transformation.	Graduates are able to analyse, assess and change the information system and process landscape of companies from an economic and technological perspective.	Graduates shape the Digital Transformation process in intercultural and interdisciplinary teams as specialists or managers.	Graduates analyse, assess and communicate the practical implications of Digital Transformation for companies and society, particularly with regard to sustainable economic activity.	Graduates apply scientific methods to develop evidence-based new findings and apply them in a design-oriented manner.	
	58644	Information Security and Data Protection		6	x					
	58106	Virtualisation and Cloud Computing		6	x					
Focus Area: International Management										
	77611	Cross-Cultural Competencies	x	6			x			
	77612	Finance for Global Managers	x	6			x	x		
	77609	Governance and Responsibility	x	6			x			
	77610	International Economics	x	6				x		
	77615	International Supply Chain Management	x	6		x	x	x		
	77604	International and Digital Controlling		6		x	x	x		
Frequency of Mention in Compulsory Elective Modules					12	7	6	7	0	
Frequency of Mention in Total					18	10	9	9	2	
					(2)	(2)	(2)	(2)	(0)	