Study and Examination Plan

Matriculation Fall 2022							
Module Code	Program-Specific Modules	Type	Assessment	Period ¹	Status ²	Semester	CP
Semester 1							25
	CORE modules						15
MCSSE-SE-01	Module: Software Construction, Software Architecture and Software Engineering	g			m	1	5
MCSSE-SE-01	Software Construction, Software Architecture and Software Engineering	Lecture	Portfolio	During semester			
MCSSE-SE-02	Module: Quality Engineering				m	1	5
MCSSE-SE-02	Quality Engineering	Lecture	Portfolio	During semester			
	Further CORE modules				me	1	5
	- students choose 1 module from those listed below						
	Capstone Project						5
MCSSE-CAP-01	Module: Capstone Project 1				m	1	5
MCSSE-CAP-01	Capstone Project 1	Project	Project	During semester			
	Management Modules						5
MCSSE-MGT-01	Module: Agile Product Development & Design				m	1	5
MCSSE-MGT-01	Agile Product Development & Design	Lecture	Presentation	Examination period			
	Leadership / Academic Skills Modules						5
MCSSE-LAS-01	Module: Entrepreneurship & Intrapreneurship				m	1	2.5
MCSSE-LAS-01	Entrepreneurship & Intrapreneurship	Lecture	Presentations	During semester			
MDE-CAR-01	Module: Communication & Presentation Skills for Executives				m	1	2.5
MDE-CAR-01	Communication & Presentation Skills for Executives	Seminar	Oral Presentation	During semester			
Semester 2							30
	CORE modules						15
MCSSE-SE-03	Module: Architectural Strategy				m	2	5
MCSSE-SE-03	Architectural Strategy	Lecture	Portfolio	Examination period			
	Further CORE modules			-	me	2	10
	- students choose 2 modules from those listed below						
	Capstone Project						5
MCSSE-CAP-02	Module: Capstone Project 2				m	2	5
MCSSE-CAP-02	Capstone Project 2	Project	Project	During semester			
	Management Modules						5
MCSSE-MGT-02	Module: Product Innovation & Marketing				m	2	5
MCSSE-MGT-02	Product Innovation & Marketing	Lecture	Presentation	During semester			
	Leadership / Academic Skills Modules						5
MCSSE-LAS-02	Module: Organizational Behavior				m	2	2,5
MCSSE-LAS-02	Organizational Behavior	Lecture	Presentations	During semester			
MDE-CAR-02	Module: Academic Writing Skills / Intercultural Training				m	2	2.5
MDE-CAR-02	Academic Writing Skills / Intercultural Training	Seminar	Term Paper	Examination period			

Semester 3							30
	CORE modules						15
	Further CORE modules				me	3	15
	- students choose 3 modules from those listed below. One CORE module can be rep	laced by the Research Project module	e.				
	Capstone Project						5
MCSSE-CAP-03	Module: Capstone Project 3				m	3	5
MCSSE-CAP-03	Capstone Project 3	Project	Project	During semester			
	Management Modules						5
MCSSE-MGT-03	Module: Transformational Change Management				m	3	5
MCSSE-MGT-03	Transformational Change Management	Lecture	Presentation	During semester			
	Leadership / Academic Skills Modules				m		5
MCSSE-LAS-03	Module: Agile Leadership and Strategic Management				m	3	2,5
MCSSE-LAS-03	Agile Leadership and Strategic Management	Lecture	Presentations	During semester			
MCSSE-LAS-04	Module: Customer-centric Mindset and Agile Delivery Management				m	3	2,5
MCSSE-LAS-04	Customer-centric Mindset and Agile Delivery Management	Lecture	Presentations	During semester			
Semester 4							30
	Master Thesis						30
MCSSE-THE-01	Module: Master Thesis MSc CSSE				m	4	30
MCSSE-THE-01	Master Thesis	Thesis	·				
Total CP							120

¹ Each lecture period lasts 14 semester weeks and is followed by reading and examination days. Written examinations are centrally scheduled during weeks 15 and 16. For all other assessment types, the timeframes indicated in the above table stipulate the period during which module work has to be handed in or presented. Specific information on dates of topic announcement as well as submission deadlines is communicated in the syllabus which is made available to the students at the beginning of each semester. Academic dates are published in the university-wide Academic Calendar (see http://www.jacobs-university.de/academic-calendar).

² m = mandatory, me = mandatory elective

Further CORE modules							
Software Engineering							
MCSSE-SE-04	Further Core Module: Advances in Software Engineering				me	3	5
MCSSE-SE-04-A	Advances in Software Engineering	Lecture	Written examination	During semester			2.5
MCSSE-SE-04-B	Advances in Software Engineering - Lab	Lab	Project	During semester			2.5
MDE-CS-02	Further Core Module: Parallel and Distributed Computing				me	1 or 3	5
MDE-CS-02	Parallel and Distributed Computing	Lecture	Written examination	Examination Period			
MDE-CS-04	Further Core Module: Advanced Databases				me	2	5
MDE-CS-04-A	Advanced Databases	Lecture	Written examination	Examination Period			2.5
MDE-CS-04-B	Advanced Databases Lab	Lab	Lab Report	During semester			2.5
Cybersecurity							
Each student must choose	at least 5 ECTS from this area. In order to specialize at least 20 ECTS must be ch	osen including all main content modules.					
MCSSE-CYB-01	Main content: Cryptography				me	1	5
MCSSE-CYB-01	Cryptography	Lecture	Written examination	Examination Period			
MCSSE-CYB-02	Main content: System Security				me	2	5
MCSSE-CYB-02	System Security	Lecture	Written examination	Examination Period			
MCSSE-CYB-03	Main content: Network Security				me	3	5
MCSSE-CYB-03	Network Security	Lecture	Written examination	Examination Period			
MDSSB-SOCB-01	Further Core Module: Cybercriminology					3	5
MDSSB-SOCB-01	Cybercriminology	Seminar	Term Paper	Examination Period			
Artificial Intelligence Each student must choose at least 5 ECTS from this area. In order to specialize at least 20 ECTS must be chosen including all main content modules MCSSE-AI-01 Main content: Deep Learning						1 or 3	5
MCSSE-AI-01	Main content: Deep Learning Deep Learning	Lecture	Written examination	Examination Period	me	1013	
MCSSE-AI-01	Main content: Intelligent Autonomous Systems	Eccture	Witten examination	Examination 1 criod	me	1 2	5
MCSSE-AI-02	Intelligent Autonomous Systems	Lecture	W.:				
MCSSE-AI-03	Main content: Symbolic Artificial Intelligence	Lecture		Examination Period	- Inc	1 or 3	
MCSSE-AI-03			Written examination	Examination Period			
	Symbolic Artificial Intelligence	Lecture			me	2	
	Symbolic Artificial Intelligence Further Core Module: Text Analysis and Natural Language Processing	Lecture	Written examination	Examination Period Examination Period	me	2	5
MDSSB-MET-02	Further Core Module: Text Analysis and Natural Language Processing	S	Written examination	Examination Period			
MDSSB-MET-02 MDSSB-MET-02	Further Core Module: Text Analysis and Natural Language Processing Text Analysis and Natural Language Processing				me me	2	5
MDSSB-MET-02 MDSSB-MET-02 MDE-CO-02	Further Core Module: Text Analysis and Natural Language Processing	Seminar/Lab	Written examination Project Report	Examination Period Examination Period	me	2	5
MDSSB-MET-02 MDSSB-MET-02 MDE-CO-02 MCDE-CO-02	Further Core Module: Text Analysis and Natural Language Processing Text Analysis and Natural Language Processing Further Core Module: Data Analytics Data Analytics	S	Written examination	Examination Period	me me	2	5 5
MDSSB-MET-02 MDSSB-MET-02 MDE-CO-02 MCDE-CO-02 MDE-CO-04	Further Core Module: Text Analysis and Natural Language Processing Text Analysis and Natural Language Processing Further Core Module: Data Analytics Data Analytics Further Core Module: Machine Learning	Seminar/Lab Lecture	Written examination Project Report Project Report	Examination Period Examination Period Examination Period	me me	2 2	5 5
MDSSB-MET-02 MDSSB-MET-02 MDE-CO-02 MCDE-CO-02 MDE-CO-04 MDE-CO-04	Further Core Module: Text Analysis and Natural Language Processing Text Analysis and Natural Language Processing Further Core Module: Data Analytics Data Analytics	Seminar/Lab	Written examination Project Report	Examination Period Examination Period	me me	2 2	5 5
MDSSB-MET-02 MDSSB-MET-02 MDE-CO-02 MCDE-CO-02 MDE-CO-04 MDE-CO-04 Breakthrough modules	Further Core Module: Text Analysis and Natural Language Processing Text Analysis and Natural Language Processing Further Core Module: Data Analytics Data Analytics Further Core Module: Machine Learning Machine Learning	Seminar/Lab Lecture	Written examination Project Report Project Report	Examination Period Examination Period Examination Period	me me me	2 2	5 5 5
MDSSB-MET-02 MDSSB-MET-02 MDE-CO-02 MCDE-CO-02 MDE-CO-04	Further Core Module: Text Analysis and Natural Language Processing Text Analysis and Natural Language Processing Further Core Module: Data Analytics Data Analytics Further Core Module: Machine Learning	Seminar/Lab Lecture	Written examination Project Report Project Report Written examination	Examination Period Examination Period Examination Period	me me	2 2 1 2 2	5 5 5 5
MDSSB-MET-02 MDSSB-MET-02 MDE-CO-02 MCDE-CO-04 MDE-CO-04 Breakthrough modules MCSSE-BA-01	Further Core Module: Text Analysis and Natural Language Processing Text Analysis and Natural Language Processing Further Core Module: Data Analytics Data Analytics Further Core Module: Machine Learning Machine Learning Quantum Informatics Quantum Informatics - Lecture	Seminar/Lab Lecture Lecture	Written examination Project Report Project Report	Examination Period Examination Period Examination Period Examination Period Examination Period	me me me	2 2 1 2 2	5 5 5 5 2.5
MDSSB-MET-02 MDSSB-MET-02 MDE-CO-02 MCDE-CO-02 MDE-CO-04 MDE-CO-04 Breakthrough modules MCSSE-BA-01 MCSSE-BA-01-A	Further Core Module: Text Analysis and Natural Language Processing Text Analysis and Natural Language Processing Further Core Module: Data Analytics Data Analytics Further Core Module: Machine Learning Machine Learning Quantum Informatics Quantum Informatics - Lecture Quantum Informatics - Lab	Seminar/Lab Lecture Lecture Lecture	Written examination Project Report Project Report Written examination Written examination	Examination Period Examination Period Examination Period Examination Period	me me me	2 2 1 2 2	5 5 5 5 2.5
MDSSB-MET-02 MDSSB-MET-02 MDE-CO-02 MCDE-CO-02 MDE-CO-04 MDE-CO-04 Breakthrough modules MCSSE-BA-01 MCSSE-BA-01-A	Further Core Module: Text Analysis and Natural Language Processing Text Analysis and Natural Language Processing Further Core Module: Data Analytics Data Analytics Further Core Module: Machine Learning Machine Learning Quantum Informatics Quantum Informatics - Lecture	Seminar/Lab Lecture Lecture Lecture	Written examination Project Report Project Report Written examination Written examination	Examination Period Examination Period Examination Period Examination Period Examination Period	me me me	2 2 1 2 2	5 5 5 5 2.5 2.5