

Curriculum 2022 - First year (as implemented in academic year 2022-2023)				
	Quarter 1	Quarter 2	Quarter 3	Quarter 4
B1	NWI-IPC020 Mathematical Structures (3 EC)	NWI-IPC017 Matrix Calculation (3 EC)	NWI-IPC006 Processors (3 EC)	NWI-IBC017 Calculus and Probability Theory (3 EC)
	NWI-IPC034 Data Analysis (3 EC)	NWI-IBC016 Combinatorics (3 EC)	NWI-IPC002 Languages and Automata (3 EC)	NWI-IPC035 Artificial Intelligence (3 EC)
	NWI-IPC021 Security (6 EC)		NWI-IPC023 Requirements Engineering (3 EC)	NWI-IPC030 Research & Development: Project (3 EC)
	NWI-IPC031 Imperative Programming (6 EC)		NWI-IPI004 Logic and Applications (6 EC)	
	NWI-IPC033 Information Modeling and Databases (6 EC)		NWI-IPI005 Object Oriented Programming (6 EC)	
	Total: 15 EC	Total: 15 EC	Total: 15 EC	Total: 15 EC

Curriculum 2022- Second year (as foreseen in academic year 2023-2024, subject to any changes)					
	Quarter 1	Quarter 2	Quarter 3	Quarter 4	
B2	Placeholder course:* NWI-IPC025 Hacking in C / NWI-IBC019 Operating System Concepts (3 EC)	NWI-IBC020 Information Systems (3 EC)	NWI-I0036 IT and Society (3 EC)	NWI-IBI007 Research Methods (3 EC)	
	NWI-IBC027 Algorithms and Datastructures (6 EC)		NWI-IBC003 Computability (3 EC)	NWI-IBC028 Complexity (3 EC)	
	NWI-IBC040 Functional Programming (6 EC)		NWI-IBC026 Semantics and Correctness (3 EC)	NWI-IBC042 Parallel Computing (3 EC)	
			NWI-IBC048 NWI-Networks and Security (6 EC)		
	<i>Specialisation: Choose 2 out of 3 tracks Data Science / Cybersecurity / Software Science in Q1-2 and for one of these, also the corresponding course(s) in Q3-4. The remaining spring course(s) of the second specialisation will be taken in the third year.</i>				
	NWI-IBI008 Data Mining (6 EC) (DSc)		NWI-IBC036 Big Data (6 EC) (DSc)		
	NWI-IBC023 Introduction to Cryptography (6 EC) (Cyb)		NWI-IPC026 Web Security (3 EC) (Cyb)	NWI-IBC034 Operating Systems Security (3 EC) (Cyb)	
NWI-IBC041 New Devices Lab (SwS)		NWI-IBC024 Software Verification (3 EC) (SwS)	NWI-IBC025 Semantics and Rewriting (3 EC) (SwS)		
	Total: 15 EC	Total: 15 EC	Total: 15 EC	Total: 15 EC	

Curriculum 2022 - Third year (as foreseen in academic year 2024-2025, subject to any changes)				
	Quarter 1	Quarter 2	Quarter 3	Quarter 4
B3	Placeholder course:* NWI-IPC025 Hacking in C / NWI-IBC019 Operating System Concepts (3 EC)		NWI-IBI010 Reflection and Vocational Orientation (3 EC)	NWI-IBC047 Law, Privacy and Identity (3 EC)
	Free electives (12 EC)		NWI-IBI001 Software Engineering (6 EC)	
	Minor Programme (15 EC)		NWI-IBC033 Bachelor Thesis (12 EC)	
	<i>The autumn semester is the so-called "mobility window", enabling students to take a semester abroad.</i>		<i>Room for spring course(s) of the second specialisation (6 EC): (choose courses of the same specialisation if there are 2):</i>	
			NWI-IBC036 Big Data (DSc) (6 EC) - or -	
			NWI-IPC026 Web Security (3 EC) (Cyb) -or-	NWI-IBC034 Operating Systems Security (3 EC) (Cyb) - or -
		NWI-IBC024 Software Verification (3 EC) (SwS)	NWI-IBC025 Semantics and Rewriting (3 EC) (SwS)	
	Total: 30 EC in the first semester		Total: 15 EC	Total: 15 EC

*Placeholder course: students take one of the two courses in the second year and the other one in the third year.