

Curriculum 2021 - First year (as implemented in academic year 2021-2022)				
	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)
	SOW-BKI135 Introduction Artificial Intelligence A (3 EC)	NWI-IBC016 Combinatorics (3 EC)	NWI-IPC002 Languages and Automata (3 EC)	NWI-IPC025 Hacking in C (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 2021- Second year (as implemented in academic year 2022-2023)					
	Quarter 1	Quarter 2	Quarter 3	Quarter 4	
B2	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 2021 - Third year (as implemented in academic year 2023-2024)					
	Quarter 1	Quarter 2	Quarter 3	Quarter 4	
B3	*NWI-IBC035 Academic Writing for Computing Scientists (3 EC)	*NWI-IBC035 Academic Writing for Computing Scientists (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)		
	<p><i>The autumn semester is the so-called "mobility window", enabling students to take a semester abroad. In that case, you may propose a course from your university of choice which is equivalent to Academic Writing for Computing Scientists (subject to approval of the Examination board).</i></p>		<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		

*This is the final year that this course is offered. It is currently foreseen that it will be offered in Q1 as well as Q2, where students can choose one of these.