	Curriculum 2019 - First year (as implemented in academic year 2019-2020)						
	Quarter 1	Quarter 2	Quarter 3	Quarter 4			
	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	NWI-IBC016 Combinatorics	NWI-IPC002 Languages and	NWI-IPC025 Hacking in C			
	Artificial Intelligence A (3 EC)	(3 EC)	Automata (3 EC)	(3 EC)			
	NWI-IPC021 Security (6 EC)  NWI-IPC031 Imperative Programmering (6 EC)		NWI-IPC023 Requirements Engineering (3 EC)	NWI-IPC030 Research & Development: Project (3 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			

	r 2020-2021)						
	- courses marked * have moved to a different quarter to accommodate the new specialisation set-up						
	Quarter 1	Quarter 2	Quarter 3	Quarter 4			
	NWI-IBC019 Operating Systems	NWI-IBC020 Information	NWI-I0036 IT and Society	NWI-IBI007 Research Methods			
	(3 EC)	Systems (3 EC)	(3 EC)	(3 EC)			
	NWI-IBC027 Algorithms and Datastructures (6 EC)		*NWI-IBC003 Computability	*NWI-IBC028 Complexity			
			(3 EC)	(3 EC)			
	NWI-IBC040 Functional Programming (6 EC)		*NWI-IBC026 Semantics and	NWI-IBC042 Parallel Computing			
			Correctness (3 EC)	(3 EC)			
			NWI-IBC048 NWI-Networks and Security (6 EC)				
B2	Specialisation: Choose <b>2 out of 3</b> tracks Data Science / Cybersecurity / Software Science in Q1-2 and for one of these tracks, also the corresponding course(s) in Q3-4. The remaining spring course(s) of the second specialisation will be taken in the third year.						
	NWI-IBI008 Data N	Mining (6 EC) (DSc)	NWI-IBC036 Big Data (6 EC) (DSc)				
	NWI-IPC026 Web Security (3 EC) (Cyb)	NWI-IBC034 Operating Systems Security (3 EC) (Cyb)	NWI-IBC023 Introduction to	Cryptography (6 EC) (Cyb)			
	*NWI-IBC041 New	Devices Lab (6 EC) (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			

	t to any changes)			
	Quarter 1	Quarter 2	Quarter 3	Quarter 4
	**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)	
вз 🚽	Minor Programme (15 EC)		NWI-IBC033 Bachelor Thesis (12 EC)	
ВЗ	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).		Room for spring course(s) of the second specialisation (6 EC):	
			NWI-IBC036 Big Data (6 EC) (DSc) - or -	
			NWI-IBC023 Introduction to Cryptography (6 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

B1 -

<sup>\*</sup> These courses have moved to a different quarter to accommodate the new specialisation set-up.

\*\*It is currently foreseen that this course will be offered in Q1 as well as Q2, where students can choose one of these options.