Master of Science in Computer Science and Information Technology

LM-18 (Computer Science)
Curriculum Cybersecurity (CS)

CM90
ord. 2022
reg. 2023

RECOMMENDED CAREER PLAN

	Year	Semester	Exam code	Academic discipline	Course	Credits	Tot.
					MANDATORY EXAMS		
a.y. 2023/24	1	I	CM0546	SECS-S/01	**Applied Probability for Computer Science**	6	54
			CM0480	INF/01	**Cryptography**	6	
			CM0474	INF/01	**Formal Methods for System Verification**	6	
			CM0631-1	INF/01	**System and Software Security - System Security**	6	
		II	CM0630-1	ING-INF/05	**Internet security - Network Security**	6	
			CM0630-2	INF/01	**Internet security - Web Security**	6	
			CM0476	INF/01	**Software Correctness, Security, and Reliability**	6	
			CM0481	INF/01	**Software Performance and Scalability**	6	
			CM0631-2	ING-INF/05	**System and Software Security - Software Security**	6	
a.y. 2024/25	2	II	CM0095	NN	**Stage**	6	30
			CM0082	PRO-FIN	**Thesis**	24	
					ELECTIVE *		
					CORE EXAMS - From 12 to 18 credits among		
	1	II	CM0633	INF/01	Software Architectures	6	18
	1	II	CM0634	ING-INF/05	Software Development Methodologies	6	
	1	I	CM0632	INF/01	Advanced Programming Languages	6	
	1	II	CM0468	INF/01	Cloud Computing and Distributed Systems	6	
	1	II	CM0473	INF/01	Information Retrieval and Web Search	6	
					CORE EXAMS - From 0 to 6 credits among		
	1	I	CM0636	ING-INF/05	Foundations of Artificial Intelligence	6	
	1	I	CM0635	INF/01	Foundations of Machine Learning	6	
	1	II	CM0637	INF/01	Algorithms for Massive Data	6	
	1	II	CM0638	ING-INF/05	Learning with Massive Data	6	
	2	I	CM0482	INF/01	Human Computer Interaction and Information Visualization	6	
					COMPLEMENTARY EXAMS - 6 credits among		
	2	I	CM0471	SECS-S/01	Statistical Inference and Learning	6	6
	2	II	CM0190	INF/01	Bioinformatics	6	
	2	II	CM0601	ING-INF/05	Quantum Computation	6	
	2	II	CM0629	SECS-S/01	Time Series Analysis for Computer Science	6	
					CHOISE BASED ON PERSONAL INTEREST: 12 credits among		
	1 or 2	I or II			Courses of Computer Science and Information Technology (not chosen before and of other curricula)	12	12
					Courses provided specifically for the Master course (established annually)		
					Courses of the University's (Master or Degree courses)		
						Tot.	120

Language — English. The language of activities select as "elective courses based on personal interest" can be different

English language requirement — A minimum B2-level knowledge of English is mandatory for enrolment. Information about recognised certifications and exemption categories at page https://www.unive.it/pag/16406/

* Elective courses can be attend in the first year or in the second one. Here's a tip for balancing your workload.

For information visit the course website http://www.unive.it/cdl/cm90