

**M. Sc. Program in "Computer Science"**

**Study plan guidelines for students matriculated before A.Y. 2022/23**

Computer Science (since A.Y. 2021/22)					Computer Science and Information Technology (starting in A.Y. 2022/23)							
Cod	Field	Teaching activity	Credits	Year	Cod	Field	Teaching activity	Credits	Year	Activities of Computer Science and Information Technology		
CM0520	INF/01	Advanced Data Management	6	1	CM0520	INF/01	Advanced Data Management	6	1			
					CM0632	INF/01	Advanced Programming Languages	6	1			
					CM0622-1	ING-INF/05	Algorithms and Learning over Massive Data - Learning with Massive Data	6	1	CM0638	ING-INF/05	Learning with Massive Data
					CM0622-2	INF/01	Algorithms and Learning over Massive Data - Algorithms for Massive Data	6	1	CM0637	INF/01	Algorithms for Massive Data
					CM0637	INF/01	Algorithms for Massive Data	6	1	CM0622-2	INF/01	Algorithms and Learning over Massive Data - Algorithms for Massive Data
CM0546	SECS-S/01	Applied Probability for Computer Science	6	1	CM0546	SECS-S/01	Applied Probability for Computer Science	6	2			
CM0190	INF/01	Bioinformatics	6	2	CM0190	INF/01	Bioinformatics	6	2			
CM0469	MAT/09	Calculus and Optimization	6	1	CM0469	MAT/09	Calculus and Optimization	6	1			
CM0468	INF/01	Cloud Computing and Distributed Systems	6	1	CM0468	INF/01	Cloud Computing and Distributed Systems	6	1			
CM0480	INF/01	Cryptography	6	1	CM0480	INF/01	Cryptography	6	1			
					CM0624	INF/01	Deep Learning for Natural Language Processing	6	2			
CM0474	INF/01	Formal Methods for System Verification	6	1	CM0474	INF/01	Formal Methods for System Verification	6	1			
CM0472-2	INF/01	Artificial Intelligence: Machine Learning and Pattern Recognition	6	1	CM0623-1	INF/01	Foundations of Artificial Intelligence and Machine Learning - Foundations of Machine Learning	6	1	CM0635	INF/01	Foundations of Machine Learning
CM0472-1	ING-INF/05	Artificial Intelligence: Knowledge Representation and Planning	6	1	CM0623-2	ING-INF/05	Foundations of Artificial Intelligence and Machine Learning - Foundations of Artificial Intelligence	6	1	CM0636	ING-INF/05	Foundations of Artificial Intelligence
CM0491	ING-INF/05	Artificial Intelligence: Knowledge Representation and Planning	6	1	CM0636	ING-INF/05	Foundations of Artificial Intelligence	6	1	CM0623-2	ING-INF/05	Foundations of Artificial Intelligence and Machine Learning - Foundations of Artificial Intelligence
CM0492	INF/01	Artificial Intelligence: Machine Learning and Pattern Recognition	6	1	CM0635	INF/01	Foundations of Machine Learning	6	1	CM0623-1	INF/01	Foundations of Artificial Intelligence and Machine Learning - Foundations of Machine Learning
CM0526	ING-INF/05	Geometric and 3D Computer Vision	6	2	CM0526	ING-INF/05	Geometric and 3D Computer Vision	6	2			
CM0482	INF/01	Human Computer Interaction and Information Visualization	6	2	CM0482	INF/01	Human Computer Interaction and Information Visualization	6	2			
CM0524	INF/01	Image and Video Understanding	6	1	CM0524	INF/01	Image and Video Understanding	6	1			
CM0473	INF/01	Information Retrieval and Web Search	6	1	CM0473	INF/01	Information Retrieval and Web Search	6	1			
					CM0630-1	ING-INF/05	Internet security - Network Security	6	1	CM0627	ING-INF/05	Network Security
CM0494	INF/01	Security 2	6	1	CM0630-2	INF/01	Internet security - Web Security	6	1	CM0628	INF/01	Web Security
					CM0638	ING-INF/05	Learning with Massive Data	6	1	CM0622-1	ING-INF/05	Algorithms and Learning over Massive Data - Learning with Massive Data
					CM0627	ING-INF/05	Network Security	6	1	CM0630-1	ING-INF/05	Internet security - Network Security

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					CM0601	ING-INF/05	Quantum Computation	6	2			
					CM0633	INF/01	Software Architectures	6	1	CM0639-1	INF/01	Software Architectures and Development Methodology - Software Architectures
					CM0639-1	INF/01	Software Architectures and Development Methodology - Software Architectures	6	1	CM0633	INF/01	Software Architectures
					CM0639-2	ING-INF/05	Software Architectures and Development Methodology - Development Methodologies	6	1	CM0634	ING-INF/05	Software Development Methodologies
CM0476	INF/01	Software Correctness, Security, and Reliability	6	1	CM0476	INF/01	Software Correctness, Security, and Reliability	6	1			
					CM0634	ING-INF/05	Software Development Methodologies	6	1	CM0639-2	ING-INF/05	Software Architectures and Development Methodology - Development Methodologies
CM0481	INF/01	Software Performance and Scalability	6	1	CM0481	INF/01	Software Performance and Scalability	6	1			
CM0588	ING-INF/05	Software Security	6	2	CM0626	ING-INF/05	Software Security	6	1	CM0631-2	ING-INF/05	System and Software Security - Software Security
CM0471	SECS-S/01	Statistical Inference and Learning	6	2	CM0471	SECS-S/01	Statistical Inference and Learning	6	2			
CM0493	INF/01	Security 1	6	1	CM0631-1	INF/01	System and Software Security - System Security	6	1	CM0625	INF/01	System Security
CM0588	ING-INF/05	Software Security	6	2	CM0631-2	ING-INF/05	System and Software Security - Software Security	6	1	CM0626	ING-INF/05	Software Security
CM0493	INF/01	Security 1	6	1	CM0625	INF/01	System Security	6	1	CM0631-1	INF/01	System and Software Security - System Security
					CM0629	SECS-S/01	Time Series Analysis for Computer Science	6	2			
CM0494	INF/01	Security 2	6	1	CM0628	INF/01	Web Security	6	1	CM0630-2	INF/01	Internet security - Web Security
<b>Teaching activities that do not have an equivalent in new course</b>												
CM0470-1	INF/01	Advanced algorithms and programming methods mod.1	6	1								
CM0470-2	INF/01	Advanced algorithms and programming methods mod.2	6	1								
CM0227	INF/01	High Performance Computing	6	1								
<b>Remarks</b>												
CM0475	INF/01	Security	12	1	Corrisponds to CM0625 System Security + CM0628 Web Security							