



**UNIVERSITÀ DEGLI STUDI
DI CAGLIARI**

MSc in Computer Engineering, Cybersecurity and Artificial Intelligence

**Faculty of Architecture and Engineering
Department of Electrical and Electronic Engineering**



Piazza D'Armi, Cagliari, Italy



Contact

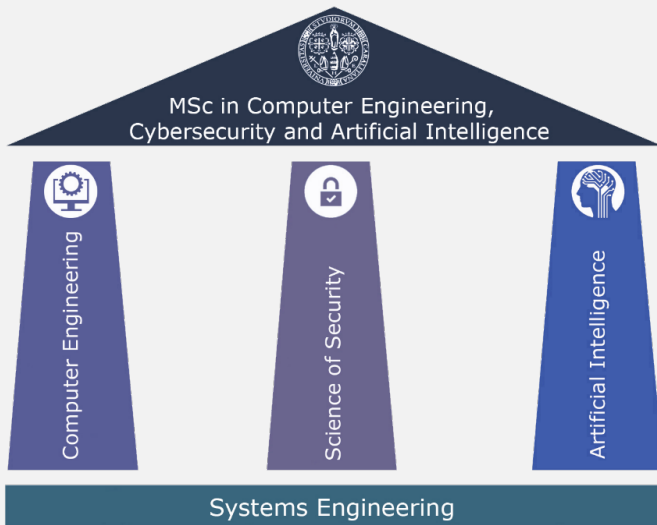
**Prof. Giorgio Giacinto
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MSc in Computer Engineering, Cybersecurity and Artificial Intelligence

<https://web.unica.it/cyberai>



ORGANIZATION

Fully compliant with the Bologna process

2-year degree / 4 semesters / 120 ECTS

1st and 3rd semester from October to February

(Lectures from October to December, and exams in January and February)

2nd and 4th semester from March to July

(Lectures from March to May, and exams in June and July)

Supplementary exam session in September for all subjects

Opportunities for **traineeship** in Sardinia, Italy, and Europe

Unique opportunity for entrepreneurial projects offered by the Center for Innovation and Entrepreneurship of the University of Cagliari (CREA UniCa)

ADMISSION REQUIREMENTS

B.Sc. Degree in Engineering or Computer Science

At least 12 ECTS in Math and Physics,
At least 36 ECTS in Computer Science, Computer Engineering, or ICT

B2 certificate English language



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SYLLABUS

SEMESTER	SUBJECT	ECTS
1	Industrial Software Development	7
1	Cybersecurity Technologies and Risk Management	8
1	Supervisory Control and Monitoring	9
1	Intelligent Systems	13
2	- Part 1: Artificial Intelligence	(6)
2	- Part 2: Machine Learning	(7)
1	Network and Web Security	9
2	- Part 1: Network Security	(4)
2	- Part 2: Web security	(5)
2	Computer Vision Technologies and Biometrics	6
2	Fault Diagnosis and Estimation in Dynamical Systems	5
2	<i>One subject from this list</i>	
2	- Smart Grid and Critical Infrastructures	6
3	- Part 1: Industrial Informatics for Energy Storage Systems	(2)
3	- Part 2: Critical Infrastructures for Innovative Power Distribution	(2)
3	- Part 3: Measurements and Cybersecurity for Smart Grid	(2)
2	- Physical-Layer Techniques for Wireless Communication Security	6
2	- Data Driven Models for System Engineering	6
3	Embedded Systems	14
3	- Part 1: Advanced Embedded Systems	(8)
3	- Part 2: Internet of Things	(6)
3	Digital Forensics	10
4	- Part 1: Digital Forensics Techniques	(5)
4	- Part 2: Digital Forensics Law	(5)
4	<i>One subject from this list</i>	
	- Machine Learning Security	5
	- Control, Learning and Security in Network Systems	5
	- Stochastic Models	5
	- Reverse Engineering and Malware Analysis	5
3 / 4	Elective activities	10
3 / 4	Seminars, Traineeship, Foreign Language Certifications	3
3 / 4	Master Thesis	15



**UNIVERSITÀ DEGLI STUDI
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Why to Choose Our MSc in Computer Engineering, Cybersecurity and Artificial Intelligence

The Dept. of Electrical and Electronic Eng. carries out **world-class research** in Electrical, Electronic, and Computer Engineering. The PRA Lab within the Dept. is world-wide known for its **leading research in Cybersecurity and Artificial Intelligence**.



High value for money. You will get a unique master degree compliant with the Bologna process for **low tuition price**. Same jobs and salaries **opportunities as the best graduates in Europe**, but with a much lower debt-to-income ratio.

One of the few MSc in Europe with a joint specialization in Cybersecurity and Artificial Intelligence

High quality of life in Cagliari:
small town with an efficient urban transportation system, and an 8 km beach.



All parts of the island can be easily reached from Cagliari.



The **international airport** of Cagliari offers convenient direct connections with all major Italian and European cities.



Sardinia offers a unique natural environment for **wildlife**, both in the coast, and in the inside. The ruins of the ancient **Nuragic civilization** can be admired in the wild, and in the Museums.



Sardinia cuisine mixes Mediterranean traditions with typical ingredients.

