



University of 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
giacinto@unica.it



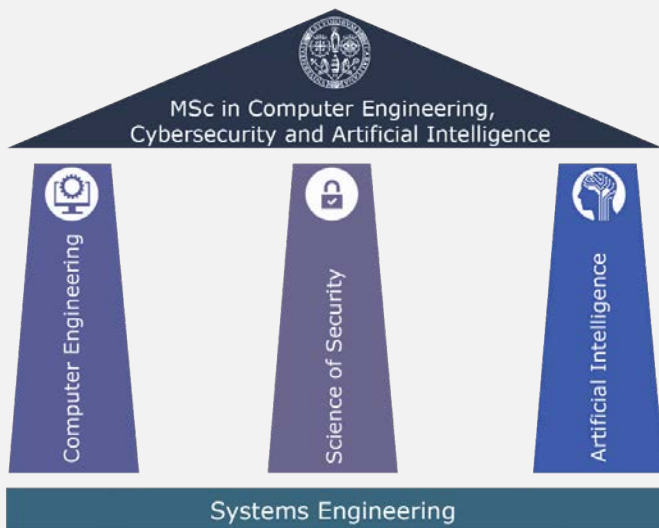


University of Cagliari



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



ORGANIZATION

Fully compliant with the Bologna process

2 years 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, and ICT

B2 certificate English language



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Cybersecurity and Artificial Intelligence**

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SYLLABUS

SEMESTER	SUBJECT	ECTS
1	Industrial Software Development	8
1	Operating Systems	7
1	Supervisory Control and Monitoring	9
1	Intelligent Systems - Part 1: Artificial Intelligence	12 (6)
2		- Part 2: Machine Learning (6)
2	Cybersecurity Technologies and Risk Management	8
2	Fault Diagnosis and Estimation in Dynamical Systems	5
2	<i>One subject from this list</i>	
	- Smart Grid and Critical Infrastructures	6
	- Part 1: Industrial Informatics for Energy Storage Systems	(2)
	- Part 2: Critical Infrastructures for Innovative Power Distribution	(2)
	- Part 3: Measurements and Cybersecurity for Smart Grid	(2)
3	- Physical-Layer Techniques for Wireless Communication Security	6
2	- Data Driven Models for System Engineering	6
	Embedded Systems	14
3	- Part 1: Advanced Embedded Systems	(8)
3	- Part 2: Internet of Things	(6)
	Network and Application Security	10
3	- Part 1: Web Security and Malware Analysis	(6)
4	- Part 2: Network Security	(4)
	Computer Forensics	10
4	- Part 1: Computer Forensics Techniques	(5)
4	- Part 2: Computer Law	(5)
4	<i>One subject from this list</i>	
	- Biometric Technologies and Behavioural Security	5
	- Machine Learning Security	5
	- Networked Control Systems and Security	5
	- Stochastic Models	5
3 / 4	Elective activities	9
3 / 4	Seminars, Traineeship, Foreign Languages	2
4	Master Thesis	15



University of Cagliari

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.

The only MSc in Europe that offers 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.

