UNIVERSITÀ DEGLI STUDI DI CAGLIARI

Facoltà di Ingegneria e Architettura

HR EXCELLENCE IN RESEARCH

MASTER'S DEGREE IN
COMPUTER ENGINEERING, CYBERSECURITY AND ARTIFICIAL INTELLIGENCE

DEGREE PROGRAMME 2026/27

Course contents are available at this link

1st year

Sem	Teaching course	SSD*	TAF*	Credits	h
1	Industrial Software Development	IINF-05/A	B	7	70
1	Cybersecurity Technologies and Risk Management	IINF-05/A	B	8	80
1	Supervisory control and monitoring	IINF-04/A	B	9	90
	Integrated course: Network and Web Security				
1	- Module: Network Security	IINF-03/A	C	4	40
2	- Module: Web security	IINF-05/A	B	5	50
	Integrated course: Intelligent Systems				
1	- Module: Artificial Intelligence	IINF-05/A	B	6	60
2	- Module: Machine Learning	IINF-05/A	B	7	70
2	Computer Vision Technologies and Biometrics	IINF-05/A	B	6	60
2	Fault diagnosis and estimation in dynamical systems	IINF-04/A	B	5	50

2nd year

Sem	Teaching course	SSD*	TAF*	Credits	h
	Integrated course: Embedded Systems				
1	- Module: Introduction to embedded systems	IINF-01/A	C	2	20
1	- Module: Advanced Embedded Systems	IINF-01/A	C	6	60
1	- Module: Internet of Things and Digital Twins	IINF-03/A	C	6	60
	Integrated course: Digital Forensics				
1	- Module: Digital Forensics Techniques	IINF-05/A	B	5	50
1	- Module: Digital Forensics Law	GIUR-17/A	C	5	50
	Chose between:				
1	Machine Learning Security	IINF-05/A	B	5	50
2	Control, Learning and Security in Network Systems	IINF-04/A	B	5	50
2	Stochastic Models	IINF-04/A	B	5	50
2	Reverse Engineering and Malware Analysis	IINF-05/A	B	5	50

Additional credits to be acquired

Sem	Activity	SSD*	TAF*	Credits	h
	1 course from table 1		C	6	
	Other activities		F	3	
	Elective activities[1]		D	12	
	Final examination		E	15	

TOTAL CREDITS 120

(1) The elective activities must be consistent with the personal educational plan and they need approval by the Degree Programme Board.

Table 1. Courses TAF C (1 from the list)

Sem	Teaching course	SSD*	TAF*	Credits	h
	1st year				
2	Integrated course: Smart Grid and Critical Infrastructures - Modulo: Industrial Informatics for energy storage systems	IIND-08/A	C	2	20
2	- Modulo: Critical infrastructures for innovative power distribution	IIND-08/B	C	2	20
2	- Modulo: Measurements and Cybersecurity for Smart Grid	IMIS-01/B	C	2	20
2	Data driven models for system engineering	IIET-01/A	C	6	60
	2nd year				
1	Physical-layer techniques for Wireless communication security	IINF-02/A	C	6	60

The semester could change; check in Course bulletin of the academic year.

***Abbreviations**

SSD	Scientific Disciplinary Sector
TAF	Type of Educational Activity