Facoltà di Ingegneria e Architettura

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

DEGREE PROGRAMME 2024/25 🇬🇧

Course contents are available at this [link](#)

1st year

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

2nd year

Sem	Teaching course	SSD*	TAF*	Credits	h
	Integrated course: Embedded Systems				
1	- Module: Advanced Embedded Systems	ING-INF/01	C	8	80
1	- Module: Internet of Things and Digital Twins	ING-INF/03	C	6	60
	Integrated course: Computer Forensics				
1	- Module: Computer Forensics Techniques	ING-INF/05	B	5	50
2	- Module: Computer Law	IUS/20	C	5	50
	One course among:				
1	Machine Learning Security	ING-INF/05	B	5	50
2	Networked control systems and security	ING-INF/04	B	5	50
2	Stochastic Models	ING-INF/04	B	5	50

Additional credits to be acquired

Sem	Activity	SSD*	TAF*	Credits	h
	1 course from tab. 1		C	6	
	Other activities		F	2	
	Elective activities[1]		D	10	
	Final Project		E	15	

TOTAL CREDITS	**120**

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

Tab 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 - Module: Industrial Informatics for energy storage systems	ING-IND/32	C	2	20
2	- Module: Critical infrastructures for innovative power distribution	ING-IND/33	C	2	20
2	- Module: Measurements and Cybersecurity for Smart Grid	ING-INF/07	C	2	20
2	Data driven models for system engineering	ING-IND/31	C	6	60
	2nd year				
1	Physical-layer techniques for Wireless communication security	ING-INF/02	C	6	60

*Abbreviations

SSD	Scientific Disciplinary Sector
TAF	Type of Educational Activity