



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

DEGREE PROGRAMME 2020/21



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

1st year

Sem	Teaching course	SSD*	TAF*	Credits	h
1	Industrial Software Development	ING-INF/05	B	8	80
1	Operating Systems	ING-INF/05	B	7	70
1	Supervisory control and monitoring	ING-INF/04	B	9	90
1	Integrated course: Intelligent Systems				
	- Module: Artificial Intelligence	ING-INF/05	B	6	60
2	- Module: Machine Learning	ING-INF/05	B	6	60
2	Cybersecurity Technologies and Risk Management	ING-INF/05	B	10	100
2	Fault Diagnosis and Estimation in Dynamical Systems	ING-INF/04	B	5	50

2nd year

Sem	Teaching course	SSD*	TAF*	Credits	h
1	Integrated course: Embedded Systems				
	- Module: Advanced Embedded Systems	ING-INF/01	C	8	80
1	- Module: Internet of Things	ING-INF/03	C	6	60
1	Web Security and Malware Analysis	ING-INF/05	B	6	60
2	Integrated course: Computer Forensics				
	- Module: Computer Forensics Techniques	ING-INF/05	B	5	50
2	- Module: Computer Law	IUS/20	C	5	50
2	<i>One course among:</i>				
	Biometric Technologies and Behavioural Security	ING-INF/05	B	5	50
2	Economics of Security and Human Factors	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	CFU	h
	1 course from tab. 1		C	6	
	Other activities		F	3	
	Elective activities ¹		D	10	
	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.



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