








MASTER'S DEGREE IN INTERNET ENGINEERING
DEGREE PROGRAMME 2023/2024

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

1st year

Sem	Teaching course	SSD*	TAF*	Credits	h
1	Integrated Course: Access Technologies and Coding				
	- Module: Codes	ING-INF/03	B	6	60
2	- Module: Access Networks	ING-INF/03	B	6	60
1	Integrated Course: Computer Technologies and Law				
	- Module: Operating systems	ING-INF/05	C	7	70
1	- Module: Legal Computer Science	IUS/20	C	4	40
1	Integrated Course: Secure and Programmable Networks				
	- Module: Network Security 	ING-INF/03	C	4	40
1	- Module: Programmable Networks	ING-INF/03	B	6	60
2	- Module: Network Security Lab	ING-INF/03	F	2	20
1	Integrated Course: Wireless Systems				
	- Module: Wireless Devices Design	ING-INF/02	B	5	50
2	- Module: Pervasive wireless systems	ING-INF/02	B	5	50
2	Stochastic models 	ING-INF/04	C	5	50
2	Product management		F	2	20

2nd year

Sem	Teaching course	SSD*	TAF*	Credits	h
	<i>One course among:</i>				
1	Advanced embedded systems 	ING-INF/01	C	8	80
1	Integrated Course: Physical-layer techniques for Wireless Communication Security and applications				
	- Module: Physical-layer techniques for Wireless Communication Security 	ING-INF/02	C	6	60
1	- Module: Radio Security in Automotive	ING-INF/02	C	2	20
2	Cybersecurity Technologies and Risk Management	ING-INF/05	C	8	80
1	Internet of Things and Digital Twins 	ING-INF/03	B	6	60
	Courses from tab. 1 or tab. 2			20	



Tab. 1. Transmission and systems

Sem	Teaching course	SSD*	TAF*	Credits	h
1	Integrated Communications and Sensing	ING-INF/02	B	6	60
1	Radio Systems Laboratory	ING-INF/02	F	2	20
2	Wireless Networks Planning	ING-INF/03	B	6	60
2	Mimo Wireless Systems	ING-INF/02	C	6	60

Tab. 2. Services and applications

Sem	Teaching course	SSD*	TAF*	Credits	h
1	MI for Communications and Networks	ING-INF/03	B	6	60
1	Smart Housing and Smart Cities	ING-INF/03	B	6	60
2	Metaverse	ING-INF/03	C	6	60
2	Service Deployment Laboratory	ING-INF/03	F	2	20

Additional credits to be acquired

Sem	Attività formativa	SSD	TAF	CFU	Ore
	Elective activities ¹		D	12	
	English Language Test ²		F	3	
	Other activities		F	4	
	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.

(2) The credits of European language level can be acquired:

- passing the English language test at B2 European level (CEFR) at Centro Linguistico d'Ateneo,
- showing appropriate certification of B2 European level (CEFR) knowledge.

Other optional activities:

Sem	Laboratorio	SSD	TAF	CFU	Ore
2	iOS Programming	ING-INF/03	F	2	20
2	Digital Forensics	IUS/20	F	3	30
2	Radio Security in Automotive	ING-INF/02	F	2	20
2	Project management and team working	ING-INF/03	F	4	40

***Abbreviations**

SSD	Scientific Disciplinary Sector
TAF	Type of Educational Activity



UNIVERSITÀ DEGLI STUDI
DI **CAGLIARI**

UNICA