MASTER'S DEGREE IN ELECTRONIC ENGINEERING

DEGREE PROGRAMME 2025/2026

Course contents are available at this link

1st year

Sem	Teaching course	SSD*	TAF*	Credits	h
	Integrated Course: Electronic Systems, Circuits and Components				
1	- Module: Reliability of Electronic Components	ING-INF/01	B	5	50
1	- Module: Microelectronics	ING-INF/01	B	6	60
1	- Modulo: Design of Integrated Systems	ING-INF/01	B	6	60
	Integrated Course: Transmission, Measurement and Control Systems				
2	- Module: Radio-Frequency Circuits	ING-INF/02	B	7	70
2	- Module: Automatic Measurement Systems	ING-INF/07	B	6	60
2	- Module: Advanced Control Systems	ING-INF/04	C	3	30

Additional credits to be acquired

Sem	Activity	SSD*	TAF*	Credits	h
	6 courses from tab 1		B	36	
	3 courses from tab 2		C	18	
	Elective activities[1]		D	12	
	English Language Test - B2[2]		F	3	
	Other activities		F	3	
	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. If the student can show appropriate certification of B2 European level (CEFR) knowledge other activities must be acquired.

Tab 1. Courses TAF B (6 from the list)

Sem	Teaching course	SSD*	TAF*	Credits	h
	1st year				
1	Integrated Circuit Design	ING-INF/01	B	6	60
2	Cyber-Physical System Architectures	ING-INF/01	B	6	60
2	Pervasive Wireless Systems	ING-INF/02	B	6	60
	2nd year				
1	Advanced embedded systems	ING-INF/01	B	6	60
1	Mixed-signal circuits and systems	ING-INF/01	B	6	60
1	Data acquisition technologies	ING-INF/07	B	6	60
1	Optoelectronics, diagnostics and aerospace applications	ING-INF/01	B	6	60
1	Microwave and Antenna Engineering	ING-INF/02	B	6	60
2	Biosensors and Bioelectronics	ING-INF/01	B	6	60
2	Flexible Electronics and Applications	ING-INF/01	B	6	60

Tab 2. Courses TAF C (3 from the list)

Sem	Teaching course	SSD*	TAF*	Credits	h
	1st year				
2	Machine Learning	ING-INF/05	C	6	60
2	Nanoelectronics	FIS/03	C	6	60
2	Access Networks	ING-INF/03	C	6	60
	2nd year				
1	Artificial Intelligence	ING-INF/05	C	6	60
1	Internet of Things and Digital Twins	ING-INF/03	C	6	60
2	Discrete-Event And Hybrid Systems	ING-INF/04	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