



**MASTER'S DEGREE IN ELECTRONIC ENGINEERING  
DEGREE PROGRAMME 2025/2026**

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

**1<sup>st</sup> 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 <sup>1</sup>		D	12	
	English Language Test - B2 <sup>2</sup>		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
<b>1<sup>st</sup> year</b>						
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
<b>2<sup>nd</sup> year</b>						
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
<b>1<sup>st</sup> year</b>						
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
<b>2<sup>nd</sup> year</b>						
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