



## MASTER'S DEGREE IN ELECTRONIC ENGINEERING




### DEGREE PROGRAMME 2019/2020

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

#### 1<sup>st</sup> year

Sem	Teaching course	SSD*	TAF*	Credits	h
<b>Common courses</b>					
1	Integrated Course: Electronic Components Reliability and Measurement Systems - Module: Reliability of Electronic Components	ING-INF/01	B	5	50
1	- Module: Automatic Measurement Systems	ING-INF/07	B	6	60
1	Integrated Course: Pervasive electromagnetics - Module: Radio-Frequency Planar Circuits	ING-INF/02	B	5	50
2	- Module: Pervasive wireless systems	ING-INF/02	B	5	50
1	Integrated Course: Microcontroller-Based, Control and Communication Systems - Module: Microcontroller-Based Systems	ING-INF/01	B	6	60
2	- Module: Wireless Networks Access Technologies	ING-INF/03	C	3	30
2	- Module: Digital Control	ING-INF/04	C	3	30
2	Integrated Course: Integrated Circuits - Module: Digital Integrated Circuits	ING-INF/01	B	5	50
2	- Module: Analog Integrated Circuits	ING-INF/01	B	5	50

#### 2<sup>nd</sup> year

Sem	Teaching course	SSD*	TAF*	Credits	h
<b>Common courses</b>					
1	Mixed-signal circuits and systems 	ING-INF/01	B	6	60
<b>Curriculum Embedded Electronics </b>					
1	Advanced embedded systems	ING-INF/01	B	8	80
1	Artificial Intelligence	ING-INF/05	C	6	60
1	Internet of things	ING-INF/03	C	6	60
1	Operating systems	ING-INF/05	C	7	70
2	Analysis and control of cyber-physical systems	ING-INF/04	C	6	60
2	Cyber-physical system architectures	ING-INF/01	B	5	50
<b>Curriculum Electronic Technologies for Emerging Applications </b>					
1	Nanoelectronics	FIS/03	C	5	50
1	Optoelectronics, diagnostics and aerospace applications	ING-INF/01	B	7	70
1	Wearable and flexible electronics	ING-INF/01	B	7	70
2	Biosensors and bioelectronics	ING-INF/06	C	6	60
2	Data acquisition technologies	ING-INF/07	B	6	60
2	Microwave systems for remote sensing	ING-INF/02	B	7	70



**Additional credits to be acquired**

Sem	Activity	SSD*	TAF*	Credits	h
	Elective activities <sup>1</sup>		D	12	
	Other activities or English Language Test <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.

**\*Abbreviations**

SSD	Scientific Disciplinary Sector
TAF	Type of Educational Activity