Università degli Studi di Cagliari
FACOLTA' DI INGEGNERIA E ARCHITETTURA

MASTER'S DEGREE IN ELECTRONIC ENGINEERING

DEGREE PROGRAMME 2021/2022

Course contents are available at this link

1st year

Sem	Teaching course	SSD*	TAF*	Credits	h
Common courses					
	Integrated Course: Electronic Systems and Components				
1	- Module: Reliability of Electronic Components	ING-INF/01	B	5	50
1	- Module: Microcontroller-Based Systems	ING-INF/01	B	6	60
1	- Module: Radio-Frequency Planar Circuits	ING-INF/02	B	5	50
2	Automatic Measurement Systems	ING-INF/07	B	6	60
	Integrated Course: Control and Wireless Communication Systems				
2	- Module: Pervasive wireless systems	ING-INF/02	B	5	50
2	- Module: Wireless Networks Access Technologies	ING-INF/03	C	3	30
2	- Module: Digital Control	ING-INF/04	C	3	30
	Integrated Course: Integrated Circuits				
2	- Module: Digital Integrated Circuits	ING-INF/01	B	5	50
2	- Module: Analog Integrated Circuits	ING-INF/01	B	5	50
Curriculum Embedded Electronics					
1	Operating systems	ING-INF/05	C	7	70
Curriculum Electronic Technologies for Emerging Applications					
1	Nanoelectronics	FIS/03	C	5	50

2nd year

Sem	Teaching course	SSD*	TAF*	Credits	h
Common courses					
1	Mixed-signal circuits and systems	ING-INF/01	B	6	60
Curriculum Embedded Electronics					
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
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
Curriculum Electronic Technologies for Emerging Applications					
1	Data acquisition technologies	ING-INF/07	B	6	60
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	Microwave systems and sensors	ING-INF/02	B	7	70

Additional credits to be acquired

Sem	Activity	SSD*	TAF*	Credits	h
	Elective activities[1]		D	12	
	Other activities or English Language Test[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.

***Abbreviations**

SSD	Scientific Disciplinary Sector
TAF	Type of Educational Activity