



**BACHELOR'S DEGREE IN
ELECTRONIC, COMPUTER AND TELECOMMUNICATION ENGINEERING
DEGREE PROGRAMME 2024/2025**

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

1st year

Sem	Teaching course	SSD*	TAF*	Credits	h
1	Mathematical Analysis 1	MAT/05	A	9	90
1	Physics 1	FIS/01	A	8	80
1	Integrated Course: Information Processing Systems - Module: Programming Fundamentals	ING-INF/05	A	6	60
2		ING-INF/05	A	6	60
2	Chemistry	CHIM/07	C	6	60
2	Physics 2	FIS/01	A	6	60
2	Geometry and Algebra	MAT/03	A	7	70
2	Communication Networks	ING-INF/03	B	6	60

2nd year

Sem	Teaching course	SSD*	TAF*	Credits	h
1	Mathematical Analysis 2	MAT/05	A	8	80
1	Applied Mathematics	MAT/08	C	6	60
1	Digital Systems Design	ING-INF/01	B	12	120
1	Integrated Course: Analysis and Control of Dynamical Systems - Module: System Theory	ING-INF/04	B	6	60
2		ING-INF/04	B	6	60
2	Integrated Course: Signal Measurement, Coding and Transmission - Module: Measurement Systems for Information Engineering	ING-INF/07	B	6	60
2		ING-INF/03	B	6	60
2	Advanced Programming	ING-INF/05	B	6	60
2	Circuit Theory	ING-IND/31	C	8	80



3rd year

Sem	Teaching course	SSD*	TAF*	Credits	h
Curriculum on Electronic Engineering					
1	Semiconductor Devices	ING-INF/01	B	8	80
1	Microcontroller-Based Systems	ING-INF/01	B	6	60
1	Integrated Course: Electromagnetics				
	- Module: Radio Link Technology	ING-INF/02	B	6	60
2	- Module: Electromagnetic Fields	ING-INF/02	B	6	60
2	Integrated Course: Electronic Systems				
	- Module: Applied Electronics	ING-INF/01	B	5	50
2	- Module: Circuit Design	ING-INF/01	B	5	50
2	- Module: Lab of Electronics	ING-INF/01	F	2	20
1	1 course from tab 1		C	6	60
Curriculum on Computer Engineering					
1	Integrated Course: Operating Systems and Database				
	- Module: Operating Systems	ING-INF/05	B	5	50
1	- Module: Lab of Operating Systems	ING-INF/05	F	2	20
1	- Module: Databases	ING-INF/05	B	6	60
1	Radio Link Technology	ING-INF/02	B	6	60
1	Internet	ING-INF/03	B	6	60
2	Integrated Course: Object-Oriented and Web Programming				
	- Module: Web Programming	ING-INF/05	B	7	70
2	- Module: Object Oriented Programming Languages	ING-INF/05	B	6	60
1	1 course from tab 2		C	6	60
Curriculum on Internet					
1	Internet	ING-INF/03	B	6	60
1	Integrated Course: Digital Media and Mobile Networks				
	- Module: Digital Media	ING-INF/03	B	6	60
1	- Module: Lab of Digital Media	ING-INF/03	F	2	20
2	- Module: XG Mobile Networks	ING-INF/03	B	6	60
1	Integrated Course: Electromagnetics for Telecommunication				
	- Module: Radio Link Technology	ING-INF/02	B	6	60
2	- Module: Electromagnetics and Antenna Technologies	ING-INF/02	B	6	60
2	Cloud networking	ING-INF/03	B	6	60
1	1 course from tab 2		C	6	60



Additional credits to be acquired

Sem	Activity	SSD*	TAF*	Credits	h
	English Language Test ¹		E	3	
	Elective activities ²		D	12	
	Final Exam		E	3	

TOTAL CREDITS 180

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

- passing the English language test at B1 European level (CEFR) at Centro Linguistico d'Ateneo,
- showing appropriate certification of B1 European level (CEFR) knowledge.

(2) The elective activities must be consistent with the personal educational plan and they need approval by the Degree Programme Board.

Tab. 1. One course from the list

Sem	Insegnamento	SSD	TAF	CFU	Ore
1	Digital Control	ING-INF/04	C	6	60
1	Measurement Systems and Virtual Instrumentation	ING-INF/07	C	6	60
1	Power Electronics	ING-IND/32	C	6	60

Tab. 2. One course from the list

Sem	Insegnamento	SSD	TAF	CFU	Ore
1	Digital Control	ING-INF/04	C	6	60
1	Measurement Systems and Virtual Instrumentation	ING-INF/07	C	6	60
2	Smart Grid	ING-IND/33	C	6	60



Tabella 3. Available elective activities

Sem	Insegnamento	SSD	TAF	CFU	Ore
n/a	Internship		D	6	60
n/a	Project in Electrical and Electronic Department		D	6	60
1	Course from Tab 1 and 2				
2	Integrated Course: Applied Electronics and Lab ¹				
2	- Module: Applied Electronics	ING-INF/01	D	5	50
2	- Module: Lab of Electronics	ING-INF/01	D	2	20
2	Circuit Design ¹	ING-INF/01	D	5	50
1	Databases ²	ING-INF/05	D	6	60
2	Object Oriented Programming Languages ²	ING-INF/05	D	6	60
1	Integrated Course: Operating Systems and Lab ²				
1	- Module: Operating Systems	ING-INF/05	D	5	50
1	- Module: Lab of Operating Systems	ING-INF/05	D	2	20
2	Web Programming ²	ING-INF/05	D	7	70
1	Integrated Course: Digital Media and Lab ³				
1	- Module: Digital media	ING-INF/03	D	6	60
1	- Modulo: Lab of Digital Media	ING-INF/03	D	2	20
2	xG Mobile Networks ³	ING-INF/03	D	6	60
¹ not available for the curriculum on Electronic Engineering ² not available for the curriculum on Computer Engineering ³ not available for the curriculum on Internet					

***Abbreviations**

SSD	Scientific Disciplinary Sector
TAF	Type of Educational Activity