



**BACHELOR'S DEGREE IN
ELECTRICAL AND AERONAUTICAL INDUSTRIAL TECHNOLOGIES
DEGREE PROGRAMME 2026/27**

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

1st year

Sem	Teaching course	SSD*	TAF*	Credits	h
1	Integrated Course: Fundamentals Of Mathematical Analysis And Physics				
	- Module: Mathematics	MATH-03/A	A	4	32
1	- Module: Physics	PHYS-03/A	A	4	32
1	Fundamentals of Computer Science, Data Analysis and Statistics	IINF-05/A	A	5	40
1	Fundamentals of Technical Drawing and CAD	IIND-03/B	B	5	40
1	Integrated Course: Measurement & Automation Principles				
	- Module: Measurement and Instrumentation Principles	IMIS-01/B	B	6	48
2	- Module: Industrial Automation Principles	IINF-04/A	B	4	32
2	Laboratory of Automation and Maintenance for Technological Systems		F	12	120
Curriculum Industrial Electrical Technologies and Energy Conversion					
1	Integrated Course: Electronic Circuits and Systems				
	- Module: Fundamentals of Electrotechnics	IIET-01/A	B	3	24
1	- Module: Fundamentals of Electrocnics	IINF-01/A	B	3	24
2	Industrial Electrical Components and Systems	IIND-08/B	B	6	48
2	Electrical and Electronic Devices for Energy Conversion	IIND-08/A	B	6	48
2	Integrated Course: IoT Technologies and RF Systems				
	- Module: IoT and Avionics Telecommunication Systems	IINF-03/A	C	5	40
2	- Module: RF Technologies for Avionics and IoT Systems	IINF-02/A	C	5	40
Curriculum Avionics Systems Technology and Maintenance					
1	Integrated Course: Electronic Circuits and Systems				
	- Module: Fundamentals of Electrotechnics	IIET-01/A	C	3	24
1	- Module: Fundamentals of Electrocnics	IINF-01/A	C	3	24
2	Integrated Course: Fundamentals of Aircraft Structures and Manufacturing Technologies				
	- Module: Elements of Aircraft Mechanical Structures	IIND-03/A	B	5	40
2	- Module: Elements of Aircraft Manufacturing Technologies	IIND-04/A	B	5	40
2	Integrated Course: IoT Technologies and RF Systems				
	- Module: IoT and Avionics Telecommunication Systems	IINF-03/A	B	5	40
2	- Module: RF Technologies for Avionics and IoT Systems	IINF-02/A	B	5	40



2nd year

Sem	Teaching course	SSD*	TAF*	Credits	h
2	Electronics, Sensors and Diagnostics Laboratory		F	12	120
Curriculum Industrial Electrical Technologies and Energy Conversion					
1	Static Conversion Systems	IIND-08/A	B	6	48
1	Smart Grid	IIND-08/B	B	6	48
1	Integrated Course: Electrical Technologies and Industrial Automation				
1	- Module: Industrial Electrical Technologies	IJET-01/A	B	4	32
1	- Module: Control Systems	IINF-04/A	B	3	24
1	Laboratory of Static Conversion for Industrial Applications		F	12	120
2	Laboratory for Design of Electrical Systems		F	12	120
Curriculum Avionics Systems Technology and Maintenance					
1	Integrated Course: Aircraft Propulsion, Systems and Avionics				
1	- Module: Fondamenti di Propulsione aeronautica	IIND-01/G	B	5	40
1	- Module: Elementi di Impianti meccanici di bordo	IIND-01/E	B	5	40
1	Tecnologie e materiali aeronautici	IMAT-01/A	B	5	40
1	Integrated Course: Aircraft Electric Power Systems				
1	- Module: Avionics Electrical Systems	IIND-08/B	C	3	24
1	- Module: Aircraft Static Energy Conversion	IIND-08/A	C	3	24
1	Laboratory of Aircraft Power and Propulsion Systems		F	12	120
2	Laboratory of Maintenance and Reliability of Aircraft Systems		F	12	120

3rd year

Sem	Activity	SSD*	TAF*	Credits	h
1	Internship A		F	24	600
2	Internship B		F	24	600

Additional credits to be acquired

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

The semester could change; check in [Course bulletin](#) of the academic year.

TOTAL CREDITS 180

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

*Abbreviations

SSD	Scientific Disciplinary Sector
TAF	Type of Educational Activity