



**BACHELOR'S DEGREE IN
ELECTRICAL ENERGY ENGINEERING FOR SUSTAINABLE DEVELOPMENT
DEGREE PROGRAMME 2026/27**

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

1st year

Teaching course	SSD*	TAF*	Credits	h
Mathematical Analysis 1	MATH-03/A	A	9	90
Chemistry	CHEM-06/A	A	6	60
Physics 1	PHYS-03/A	A	8	80
Integrated Course: Systems for Digital Sustainability				
- Module: Sustainable Regional and Urban Planning	CEAR-12/A	C	5	50
- Module: Communication Networks	IINF-03/A	C	6	60
Physics 2	PHYS-03/A	A	7	70
Fundamentals of Computer Science	IINF-05/A	A	6	60
Geometry and Algebra	MATH-02/B	A	7	70

2nd year

Teaching course	SSD*	TAF*	Credits	h
Mathematical Analysis 2	MATH-03/A	A	8	80
Fundamentals on Automatic Control	IINF-04/A	B	9	90
Integrated Course: Electrotechnics				
- Module: Circuit Theory	IIET-01/A	B	8	80
- Module: Applications of static electric and magnetic fields	IIET-01/A	B	5	50
Integrated Course: Fundamentals of Energy Sustainability				
- Module: Applied Thermodynamics	IIND-07/B	B	6	60
- Module: Principles of Sustainable Mobility	CEAR-03/B	C	5	50
Measurements and Instrumentation	IMIS-01/B	B	6	60
<i>Choose between:</i>				
Machine learning and data mining	IINF-05/A	C	6	60
Microcontroller-Based Systems	IINF-01/A	C	6	60
Materials Technology	IMAT-01/A	C	6	60
Integrated Course: IoT Platforms				
- Module: Hardware Platforms for IoT	IINF-01/A	C	3	30
- Module: Data Processing and Transmission	IINF-03/A	C	3	30



3rd year

Teaching course	SSD*	TAF*	Credits	h
Measurements on Power Systems	IMIS-01/B	B	6	60
Sustainable Energy Technologies and Systems	IIND-06/B	B	9	90
Power Electronics	IIND-08/A	B	6	60
Integrated Course: Smart Power Systems for Energy Transition				
- Module: Fundamentals of Electric Power Systems	IIND-08/B	B	5	50
- Module: Smart Grid For Electric Power Distribution	IIND-08/B	B	5	50
Integrated Course: Conversion Devices for Sustainable Energy				
- Module: Electrical Machines	IIND-08/A	B	5	50
- Module: Electrical Drives	IIND-08/A	B	5	50
Integrated Course: Sustainable Energy Development				
- Module: Energy: Markets and Regulation	IIND-08/B	B	5	50
- Module: Energy carrier and storage systems	IIND-08/A	B	5	50

Additional credits to be acquired

Activity	SSD*	TAF*	Credits	h
English Language Test - B1 ¹		E	3	
Elective activities ²		D	12	
Other activities		F	2	
Final Exam		E	5	

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.

Other optional activities

Laboratory	SSD*	TAF*	Credits	h
Renewable Energy Conversion and Energy Storage Lab	IIND-08/A	F	2	20
Lv Electrical Installation Design Lab	IIND-08/B	F	2	20
Electrical Circuits Hardware and Software Lab	IJET-01/A	F	2	20

***Abbreviations**

SSD	Scientific Disciplinary Sector
TAF	Type of Educational Activity