



**BACHELOR'S DEGREE IN
ELECTRICAL AND ELECTRONIC ENGINEERING
DEGREE PROGRAMME 2014/2015**

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	Chemistry	CHIM/07	A	6	60
1	Physics 1	FIS/01	A	8	80
2	Integrated Course: Mathematics - Module: Mathematical Analysis 2	MAT/05	A	5	50
2	- Module: Geometry and Algebra	MAT/03	A	7	70
2	Physics 2	FIS/01	A	7	70
2	Integrated Course: Information Processing Systems - Module: Fundamentals of Computer Science	ING-INF/05	A	6	60
2	- Module: Computer Architectures	ING-INF/05	A	6	60

2nd year

Sem	Teaching course	SSD*	TAF*	Credits	h
1	Applied Mathematics	MAT/08	A	6	60
1	Communication Networks	ING-INF/03	C	6	60
1	Integrated Course: Analysis and Control of Dynamical Systems - Module: System Theory	ING-INF/04	B	6	60
2	- Module: Automatic Control Systems	ING-INF/04	B	6	60
1 - 2	Electrotechnics	ING-IND/31	B	12	120
2	Fundamentals of Electronics	ING-INF/01	B	10	100
2	Electrical and Electronic Measurements	ING-INF/07	B	9	90
<i>Curriculum on Electrical Engineering</i>					
1	Engineering Physics	ING-IND/11	C	6	60
<i>Curriculum on Electronic Engineering</i>					
1	Signal Theory	ING-INF/03	C	6	60
<i>Curriculum on Computer Engineering</i>					
1	Signal Theory	ING-INF/03	C	6	60



3rd year

Sem	Teaching course	SSD*	TAF*	Credits	h
1	Integrated Course: Power Electronics and Electrical Power Systems				
1	- Module: Power Electronics	ING-IND/32	B	6	60
1	- Module: Fundamentals of Electric Power Systems	ING-IND/33	B	6	60
Curriculum on Electrical Engineering					
1	Fluid Machinery and Energy Systems	ING-IND/09	C	6	60
1	Occupational Safety and Environmental Protection	ING-IND/28	B	6	60
2	Fundamentals of Electric Power Distribution and Smart Grids	ING-IND/33	B	6	60
2	Measurements on Power Systems	ING-INF/07	B	6	60
2	Electrical Machines	ING-IND/32	B	6	60
Curriculum on Electronic Engineering					
1	Semiconductor Physics	FIS/03	C	6	60
1	Digital Systems Design	ING-INF/01	B	8	80
2	Electromagnetic Fields	ING-INF/02	B	8	80
2	Semiconductor Devices	ING-INF/01	C	6	60
2	Other activities		F	2	
Curriculum on Computer Engineering					
1	Databases	ING-INF/05	A	6	60
1	Digital Systems Design	ING-INF/01	B	8	80
2	Object Oriented Programming Languages	ING-INF/05	B	5	50
2	Software Engineering	ING-INF/05	B	5	50
2	Internet	ING-INF/03	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	
	Other activities		F	2	
	Final Exam		E	6	

TOTAL CREDITS 180

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

- passing the English language test as part of the admission test,
- 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.

***Abbreviations**

SSD	Scientific Disciplinary Sector
TAF	Type of Educational Activity