# **BACHELOR'S DEGREE IN**

# ELECTRICAL, ELECTRONIC AND COMPUTER ENGINEERING

## **DEGREE PROGRAMME 2017/2018**

In addition to the traditional taught lessons, an on-line distance learning programme will be available, for the first and second year classes (blended programme).

The students must choose the type of programme (traditional or blended) as they enroll to the bachelor's degree.

Course contents are available at this <u>link</u>

### 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
	Integrated Course: Information Processing Systems				
1	- Module: Fundamentals of Computer Science	ING-INF/05	A	6	60
2	- Module: Computer Architectures	ING-INF/05	Α	6	60
2	Chemistry	CHIM/07	A	6	60
2	Physics 2	FIS/01	A	7	70
2	Geometry and Algebra	MAT/03	A	7	70
2	Communication Networks	ING-INF/03	С	6	60

#### 2nd year

Sem	Teaching course	SSD*	TAF*	Credits	h
1	Mathematical Analysis 2	MAT/05	А	8	80
1	Applied Mathematics	MAT/08	Α	6	60
	Integrated Course: Analysis and Control of Dynamical Systems				
1	- Module: System Theory	ING-INF/04	В	6	60
2	- Module: Automatic Control Systems	ING-INF/04	В	6	60
1 - 2	Electrotechnics	ING-IND/31	В	12	120
2	Fundamentals of Electronics	ING-INF/01	В	10	100
2	Electrical and Electronic Measurements	ING-INF/07	В	9	90
Curri	culum on Electrical Engineering				
1	Engineering Physics	ING-IND/11	С	6	60
Curri	culum on Electronic Engineering				
1	Signal Theory	ING-INF/03	С	6	60
Curri	culum on Computer Engineering	·	•	•	
1	Advanced Programming and Elements of Software Engineering	ING-INF/05	В	5	50



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### 3rd year

Sem	Teaching course	SSD*	TAF*	Credits	h	
	Integrated Course: Power Electronics and Electrical Power Systems					
1	- Module: Power Electronics	ING-IND/32	В	6	60	
1	- Module: Fundamentals of Electric Power Systems	ING-IND/33	В	6	60	
Currio	Curriculum on Electrical Engineering					
1	Fluid Machinery and Energy Systems	ING-IND/09	С	6	60	
1	Measurements on Power Systems	ING-INF/07	В	6	60	
2	Fundamentals of Electric Power Distribution and Smart Grids	ING-IND/33	В	6	60	
2	Electrical Machines	ING-IND/32	В	6	60	
Currio	culum on Electronic Engineering					
1	Semiconductor Physics	FIS/03	С	6	60	
1	Digital Systems Design	ING-INF/01	В	8	80	
2	Electromagnetic Fields	ING-INF/02	В	8	80	
2	Semiconductor Devices	ING-INF/01	С	6	60	
Currio	culum on Computer Engineering					
1	Databases	ING-INF/05	В	6	60	
1	Digital Systems Design	ING-INF/01	С	8	80	
2	Object Oriented Programming Languages	ING-INF/05	В	5	50	
2	Internet	ING-INF/03	С	6	60	

Additional credits to be acquired

Sem	Activity	SSD*	TAF*	Credits	h
	English Language Test <sup>1</sup>		Е	3	
	Elective activities <sup>2</sup>		D	12/16	
	Other activities		F	2	
	Final Exam		Е	5	

### 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. The required credits are 12 for the Curriculum on Electronic Engineering and 16 for the Curriculum on Electrical Engineering and the Curriculum on Computer Engineering.

#### \*Abbreviations

SSD	Scientific Disciplinary Sector
TAF	Type of Educational Activity