



BACHELOR'S DEGREE IN ELECTRICAL AND ELECTRONIC ENGINEERING

DEGREE PROGRAMME 2015/2016

From a.y. 2015-16, 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 [link](#)

1st year – 1st semester

Teaching course	SSD*	TAF*	Credits	h
Mathematical Analysis 1	MAT/05	A	9	90
Chemistry	CHIM/07	A	6	60
Physics 1	FIS/01	A	8	80
English Language Test ¹		E	3	
Total Credits 1 st year – 1 st semester			26	

1st year – 2nd semester

Teaching course	SSD	TAF	Credits	h
Integrated Course: Mathematics - Module: Mathematical Analysis 2 - Module: Geometry and Algebra	MAT/05 MAT/03	A A	5 7	50 70
Physics 2	FIS/01	A	7	70
Integrated Course: Information Processing Systems - Module: Fundamentals of Computer Science - Module: Computer Architectures	ING-INF/05 ING-INF/05	A A	6 6	60 60
Total Credits 1 st year – 2 nd semester			31	

2nd year – 1st semester

Teaching course	SSD	TAF	Credits	h
Integrated Course: Analysis and Control of Dynamical Systems - Module: System Theory	ING-INF/04	B	6	60
Electrotechnics - 1 st part	ING-IND/31	B	6	60
Applied Mathematics	MAT/08	A	6	60
Communication Networks	ING-INF/03	C	6	60
<i>Curriculum on Electrical Engineering:</i> - Engineering Physics	ING-IND/11	C	6	60
<i>Curriculum on Electronic Engineering:</i> - Signal Theory	ING-INF/03	C	6	60
<i>Curriculum on Computer Engineering:</i> - Signal Theory	ING-INF/03	C	6	60
Total Credits 2 nd year – 1 st semester			30 - 30 - 30	



2nd year – 2nd semester

Teaching course	SSD	TAF	Credits	h
Integrated Course: Analysis and Control of Dynamical Systems - Module: Automatic Control Systems	ING-INF/04	B	6	60
Electrotechnics – 2 nd part	ING-IND/31	B	6	60
Fundamentals of Electronics	ING-INF/01	B	10	100
Electrical and Electronic Measurements	ING-INF/07	B	9	90
Total Credits 2 nd year – 2 nd semester			31	

3rd year – 1st semester

Teaching course	SSD	TAF	Credits	h
Integrated Course: Power Electronics and Electrical Power Systems - Module: Power Electronics - Module: Fundamentals of Electric Power Systems	ING-IND/32 ING-IND/33	B B	6 6	60 60
<i>Curriculum on Electrical Engineering:</i> - Fluid Machinery and Energy Systems - Occupational Safety and Environmental Protection	ING-IND/09 ING-IND/28	C B	6 6	60 60
<i>Curriculum on Electronic Engineering:</i> - Semiconductor Physics - Digital Systems Design	FIS/03 ING-INF/01	C B	6 8	60 80
<i>Curriculum on Computer Engineering:</i> - Databases - Digital Systems Design	ING-INF/05 ING-INF/01	A B	6 8	60 80
Elective activities ²		D	6	60
Total Credits 3 rd year – 1 st semester			30 - 32 - 32	

3rd year – 2nd semester

Teaching course	SSD	TAF	Credits	h
<i>Curriculum on Electrical Engineering:</i> - Fundamentals of Electric Power Distribution and Smart Grids - Measurements on Power Systems - Electrical Machines	ING-IND/33 ING-INF/07 ING-IND/32	B B B	6 6 6	60 60 60
<i>Curriculum on Electronic Engineering:</i> - Electromagnetic Fields - Semiconductor Devices - Other activities	ING-INF/02 ING-INF/01	B C F	8 6 2	80 60 20



<i>Curriculum on Computer Engineering:</i> - Object Oriented Programming Languages - Software Engineering - Internet	ING-INF/05 ING-INF/05 ING-INF/03	B B C	5 5 6	50 50 60
Elective activities ²		D	6	60
Other activities		F	2	
Final Exam		E	6	
Total Credits 3 rd year – 2 nd semester			32 - 30 - 30	

Total credits 180

***Abbreviations**

SSD	Scientific Disciplinary Sector
TAF	Type of Educational Activity

- (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.