

Engenharia Eletrotécnica



Code 9109

Department Electrical Engineering Department

Degree Licenciado (bachelor)

Initial registry:
R/A-Ef 728/2011 from 18-03-2011

Registry
Changes registry:
R/A-Ef 728/2011/AL01 from 4-08-2021

Duration 3 year(s)

Regime Daytime

National entrance and exams 07 Physics and Chemistry
16 Mathematics

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**Politécnico
de Viseu**

**Engenharia
Eletrotécnica**

Curricular structure

1st Year - 1st Semester

Course unit	Contact hours				ECTS
	T	TP	PL	O	
Linear Algebra and Analytical Geometry	19,5	32,5	-	-	5
Mathematical Analysis I	19,5	39	-	-	5.5
Electrotechnical Drawing	-	26	52	-	7
General Physics	26	26	-	-	6.5
Computer Programming	13	13	26	-	6

T - Theoretical; TP - Theoretical and Practical; PL - Practical and laboratorial; O - Other types

1st Year - 2nd Semester

Course unit	Contact hours				ECTS
	T	TP	PL	O	
Mathematical Analysis II	19,5	39	-	-	5.5
Electrotechnics & Circuits	19,5	13	26	-	6.5
Electrical Installations I	19,5	19,5	-	-	3.5
Numerical Methods	13	13	26	-	5
Probability and Statistics	19,5	32,5	-	-	5
Advanced Programming	13	-	26	-	4.5

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2nd Year - 1st Semester

Course unit	Contact hours				ECTS
	T	TP	PL	O	
Electromagnetism	26	26	-	-	6
Electronics	26	19,5	19,5	-	6.5
Electrical Installations II	26	19,5	19,5	-	6
Digital Systems	26	19,5	19,5	-	6.5
Systems & Control	26	26	-	-	5

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2nd Year - 2nd Semester

Course unit	Contact hours				ECTS
	T	TP	PL	O	
Power Electronics	19,5	19,5	19,5	-	6
Electric Power Management and Quality	19,5	19,5	19,5	-	6
Industrial Instrumentation	26	-	32,5	-	6
Electrical Machines	19,5	19,5	19,5	-	6
Microsystems	19,5	19,5	19,5	-	6

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3rd Year - 1st Semester

Course unit	Contact hours				ECTS
	T	TP	PL	O	
Industrial Automation	19,5	13	26	-	6
Industrial Management	26	39	-	-	4
Project on Building Electrical Installations and Telecommunications	13	13	39	13	8
Electromechanical Motion Systems	19,5	13	26	-	6
Electronic Systems	13	19,5	26	-	6

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3rd Year - 2nd Semester

Course unit	Contact hours				ECTS
	T	TP	PL	O	
Safety Management at Work	26	39	-	-	3.5
Signal Processing	19,5	13	26	-	5.5
Project Work	-	-	-	91	10
Industrial Networks	19,5	39	-	-	5
Industrial Robotics	13	19,5	26	-	6

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Scientific areas

Areas	ECTS
Basic Sciences	50.5
Electrical Engineering	129.5
Total	180