

Engenharia Civil



Code 9089

Department Civil Engineering Department

Degree Licenciado

Initial registry:
R/A-Ef 3344/2011 from 18-03-2011Registry
Changes registry:
R/A-Ef 3344/2011/AL01 de 14-05-2020

Duration 3 year(s)

Regime Daytime

National 07 Physics and Chemistry
entrance and
exams 16 MathematicsCourse
director António Luís Pimentel Vasconcelos

Marco José Henriques Vinhanova

Course
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Curricular structure

1st Year - 1st Semester

Course unit	Contact hours				ECTS
	T	TP	PL	O	
9089-31823 - Linear Algebra and Analytical Geometry	19,5	32,5	-	-	5
9089-31821 - Mathematical Analysis I	19,5	39	-	-	6
9089-318219 - Technical Drawing	-	19,5	52	-	6
9089-3182819 - Physics Applied to Civil Engineering	13	52	-	-	6
9089-31821206 - Introduction to Civil Engineering	-	32,5	-	-	2.5
9089-318259 - Programming	-	45,5	-	-	4.5

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	
9089-31826 - Mathematical Analysis II	19,5	39	-	-	6
9089-3182621 - Computer Aided Design	-	13	32,5	-	4
9089-318212 - Engineering Geology	19,5	26	-	-	4
9089-318261 - Construction Materials	19,5	39	-	-	5
9089-3182821 - Applied Mechanics	13	52	-	-	6
9089-3182739 - Probability and Statistics	13	13	26	-	5

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

2nd Year - 1st Semester

Course unit	Contact hours				ECTS
	T	TP	PL	O	
9089-3182113 - Hydraulics I	19,5	39	-	-	5.5
9089-31821638 - BIM Methodology	-	26	26	-	4.5
9089-3182822 - Numerical Methods and Operational Research	19,5	19,5	13	-	5
9089-31821640 - Territorial Planning and Urban Management	19,5	32,5	-	-	4.5
9089-31821639 - Quality and Sustainability in Construction	19,5	32,5	-	-	4.5
9089-3182139 - Strength of Materials I	13	52	-	-	6

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2nd Year - 2nd Semester

Course unit	Contact hours				ECTS
	T	TP	PL	O	
9089-3182122 - Structures	19,5	39	-	-	5.5
9089-3182118 - Hydraulics II	19,5	39	-	-	5

9089-3182114 - Soil Mechanics I	19,5	39	-	-	5
9089-3182142 - Strength of Materials II	19,5	39	-	-	5
9089-3182146 - Building Technology	19,5	39	-	-	5
9089-31821210 - Topography and Geographic Information Systems	-	32,5	26	-	4.5

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3rd Year - 1st Semester

Course unit	Contact hours				ECTS
	T	TP	PL	O	
9089-3182826 - Structural Concrete I	13	52	-	-	5.5
9089-3182833 - Building Physics	19,5	39	-	-	5
9089-3182144 - Applied Hydraulics	19,5	39	-	-	5
9089-3182120 - Soil Mechanics II	19,5	39	-	-	5
9089-31821209 - Planning and Management of Projects and Construction Works	19,5	39	-	-	4.5
9089-3182148 - Roads I	19,5	39	-	-	5

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3rd Year - 2nd Semester

Course unit	Contact hours				ECTS
	T	TP	PL	O	
9089-3182831 - Structural Concrete II	13	52	-	-	5.5
9089-31821213 - Management, Coordination and Construction Supervision	19,5	39	-	-	5
Option A or B					14.5
9089-31821211 - Retaining Structures and Foundations	19,5	39	-	-	5
9089-3182151 - Structural Design of Buildings	19,5	39	26	39	9.5
9089-31821212 - Infrastructure Project	19,5	39	26	39	9.5
9089-3182501 - Urbanization	19,5	39	-	-	5
9089-3182152 - Roads II	19,5	39	-	-	5

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Scientific areas

Areas	ECTS
Complementary Sciences	12.5
Engineering Sciences	12
Civil Engineering	109.5
Mathematics	27
Information Technology	4.5
(*) Areas of optional course units	14.5
Total	180 (*)

(*) Some course units are assigned to more than one scientific area. The total ECTS of the course is .

(*) Areas of optional course units	ECTS
Civil Engineering	29