

Engenharia do Ambiente



Code 9099

Department Environmental Department

Degree Licenciado (bachelor)

Initial registry:
R/A-Ef 726/2011 from 18-03-2011

Registry Changes registry:
R/A-Ef 726/2011/AL01 de 23-06-2015
R/A-Ef 726/2011/AL02 de 03-03-2017

Duration 3 year(s)

Regime Daytime

One of the following groups:

National entrance exams
02 Biology and Geology
16 Mathematics
or
07 Physics and Chemistry
16 Mathematics

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Curricular structure

1st Year - 1st Semester

Course unit	Contact hours				ECTS
	T	TP	PL	O	
9099-31823 - Linear Algebra and Analytical Geometry	26	26	-	-	5
9099-31821 - Mathematical Analysis I	26	26	-	-	5
9099-3182852 - Dynamic of Terrestrial Systems	26	26	-	-	5
9099-31821517 - Ecology and Nature Conservation	26	26	-	-	5
9099-3182853 - Introduction to Environmental Engineering	26	26	-	30	5
9099-318256 - General Chemistry	26	-	26	-	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	
9099-31826 - Mathematical Analysis II	26	26	-	-	5
9099-31821518 - Applications to Environmental Engineering	13	13	26	-	5
9099-318211 - General Physics	-	52	-	-	5
9099-3182857 - Microbiology	13	13	26	-	5
9099-3182315 - Organic Chemistry	26	-	26	-	5
9099-3182314 - Statistical Data Treatment	-	26	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	
9099-3182515 - Transfer Phenomena	26	26	-	-	5
9099-3182543 - Fluid Mechanics	26	26	-	-	5
9099-3182863 - Methods in Chemical Analysis	-	13	39	-	5
9099-3182101 - Numerical Methods	13	13	26	-	5
9099-3182859 - Unitary Operations and Reactors	26	26	-	-	5
9099-3182334 - Thermodynamics	26	26	-	-	5

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

2nd Year - 2nd Semester

Contact hours

Course unit	T	TP	PL	O	ECTS
9099-3182858 - Cartography and Geographic Information Systems	26	-	39	-	6
9099-3182860 - Combustion and Gas Emission Control	26	39	-	-	6
9099-3182862 - Hydrology and Water Resources	26	39	-	-	6
9099-3182869 - Application Laboratories	13	13	39	-	6
9099-3182861 - Water Pollution & Water Quality	26	39	-	-	6

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

3rd Year - 1st Semester

Course unit	T	TP	Contact hours		ECTS
			PL	O	
9099-3182325 - Acoustics and Noise Pollution	26	39	-	-	6
9099-3182865 - Waste Management and Treatment	39	26	-	-	6
9099-31821519 - Environmental Engineering Labs	13	13	39	-	6
9099-31821520 - Soil Pollution and Land Rehabilitation	26	-	39	-	6
9099-3182864 - Water Treatment	26	39	-	-	6

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

3rd Year - 2nd Semester

Course unit	T	TP	Contact hours		ECTS
			PL	O	
9099-31821521 - Sustainable Energy	39	26	-	-	6
9099-3182868 - Decision Support Tools	26	39	-	-	6
Option I					12
9099-3182185 - Work Placement	-	-	-	13	12
9099-3182179 - Project Work	-	-	-	13	12
9099-3182867 - Air Pollution & Air Quality	26	39	-	-	6

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Scientific areas

Areas	ECTS
Environment and Energy	54
Basic Sciences	50
Engineering Sciences	59
Basic Skills	5
(*) Areas of optional course units	12
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
Environment and Energy	24