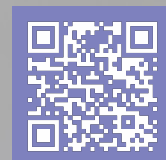


Bachelor • Lisboa

DATA SCIENCE



Direction

Luís Miguel Serra Da Costa Campos
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Secretariat

Lurdes Oliveira
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Duration

3 Years

Credits

180 ects

Exams

Have one of the following sets:

- 04 Economia and 16 Matemática
- 07 Física e Química and 16 Matemática
- 16 Matemática and 18 Português
- 10 Geometria Descritiva and 16 Matemática
- 13 Inglês and 16 Matemática
- 09 Geografia and 16 Matemática

Presentation

Data Science, as defined by experts in the field, is a multidisciplinary experimental science that responds to the large volume of big data that has grown exponentially in the face of recent technological developments. The opportunity to transform this data into information and knowledge for the good of society is essential in business, science and other areas with a social impact. In this cycle of study we present a programme with strong components in: Statistics, Maths, Automated Learning, Programming, Data Extraction and Handling, various Data Engineering components and a strong focus on Privacy, Security and Ethics.

STUDY PLAN

1st Year / General path

1º Semestre	ects	2º Semestre	ects
Data Science Foundations	6	Exploratory Data Analysis	6
Discrete Mathematics	6	Linear Algebra	6
Mathematics I	6	Mathematics II	6
Probabilities and Statistics	6	Numerical Analysis	6
Programming Fundamentals	6	Programming Languages	6

2nd Year / General path

1º Semestre	ects	2º Semestre	ects
Algorithms and Data Structures	6	Artificial Intelligence	6
Data Science	6	Introduction to Stochastic Processes	6
Databases	6	Introduction to the Theory of Graphs and Networks	6
Fundamentals of Data Engineering	6	Machine Learning I	6
Introduction to Artificial Intelligence	6	Visualization for Data Science	6

3rd Year / General path

Anual	ects	1º Semestre	ects	2º Semestre	ects
Final Course Work	20	Computer vision	5	Business Analytics	5
		Introduction to Privacy, Security and Ethics	5	Machine Learning III	5
		Machine Learning II	5	Operational Research	5
		Scientific Research Methodologies	5	Time Series	5

Linha direta
para o teu futuro



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