

Data Science and Engineering Degree Course 21/22

The total duration of the degree is 4 academic courses (8 semesters):

- Autumn (non semesters) from September to January.
- Summer (even semesters) from February to June.

All subjects are 6 ECTS (3 lectures + 3 lab) and the instruction language is **Spanish**. Some teachers, voluntary, are willing to attend students in **English for tutorial support**.

The first three courses include common subjects while in the last one optional subjects are available.

A) COMMON SUBJECTS

FIRST COURSE:

Code	Subject	Description	Semester	Tutorial support English
40362	ÁLGEBRA Y GEOMETRÍA	Algebra and Geometry	Aut.	Yes
40363	MATEMÁTICA DISCRETA	Discrete mathematics	Aut.	Yes
40364	FUNDAMENTOS DE PROGRAMACIÓN I	Programming fundamentals 1	Aut.	Yes
40365	INGENIERÍA DE COMPUTADORES I	Computer engineering 1	Aut.	Yes
40366	MÉTODOS ESTADÍSTICOS I	Statistical methods 1	Aut.	Yes
40367	MATEMÁTICAS PARA LA COMPUTACIÓN	Mathematics for computation	Sum.	Yes
40368	LA EMPRESA Y SUS PROCESOS	The enterprise and its processes	Sum.	No
40369	FUNDAMENTOS DE PROGRAMACIÓN II	Programming fundamentals 2	Sum.	Yes
40370	INGENIERÍA DE COMPUTADORES II	Computer engineering 2	Sum.	Yes
40371	MÉTODOS ESTADÍSTICOS II	Statistical methods 2	Sum.	Yes



SECOND COURSE:

Code	Subject	Description	Semester	Tutorial support English
40381	ANÁLISIS EXPLORATORIO DE DATOS Y VISUALIZACIÓN	<i>Exploratory data analysis and visualization</i>	<i>Sum.</i>	Yes
40380	APRENDIZAJE AUTOMÁTICO I	<i>Machine learning I</i>	<i>Sum.</i>	Yes
40379	BASES DE DATOS I	Data bases I	<i>Sum.</i>	No
40378	CIENCIA DE DATOS EN EMPRESAS Y FINANZAS	<i>Data science in companies and finances</i>	<i>Sum.</i>	Yes
40374	DESARROLLO DE APLICACIONES PARA CIENCIA DE DATOS	Application development for data science	<i>Aut.</i>	Yes
40372	FUNDAMENTOS DE LOS SISTEMAS INTELIGENTES	<i>Intelligent systems fundamentals</i>	<i>Aut.</i>	Yes
40373	FUNDAMENTOS DE MARKETING Y COMPORTAMIENTO DEL CONSUMIDOR	Marketing fundamentals and consumer behaviour	<i>Aut.</i>	Yes
40376	HABILIDADES PROFESIONALES PARA INGENIEROS	<i>Professional skills for engineers</i>	<i>Aut.</i>	Yes
40375	INGENIERÍA DEL SOFTWARE	Software engineering	<i>Aut.</i>	Yes
40377	INTELIGENCIA ARTIFICIAL PARA CIENCIA DE DATOS	<i>Artificial intelligence for data science</i>	<i>Sum.</i>	Yes