

Computer Engineering Degree

Course 26/27

IMPORTANT: this list is not a guarantee of place availability, only the LA signed can be taken as a confirmation. The English support means simply good will intention, cannot be taken as an obligation for the teachers.

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.

Most subjects are 6 ECTS (3 lectures + 3 lab) and the instruction language is **Spanish**. Some teachers, voluntary, are willing to attend the incoming students in **English during tutorial hours, off-timetable**.

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

A) COMMON SUBJECTS

FIRST COURSE:

<i>Code</i>	<i>Subject</i>	<i>Description</i>	<i>Semester</i>	<i>Teach Lang.</i>	<i>Exam / assignments in English</i>	<i>Tutorial support English</i>
40951	ÁLGEBRA Y GEOMETRÍA	Algebra and geometry	Aut.	Spanish	No	Yes
40952	MATEMÁTICA DISCRETA	Discrete mathematics	Aut.	Spanish	No	Yes
40953	FUNDAMENTOS DE PROGRAMACIÓN I	Programming fundamentals 1	Aut.	Spanish	Partially	Partially
40954	FUNDAMENTOS DE COMPUTADORES	Computer fundamentals	Aut.	Spanish	No	Yes
40956	MATEMÁTICAS PARA LA COMPUTACIÓN	Mathematics for computation	Sum.	Spanish	Yes	Yes
40957	FUNDAMENTOS FÍSICOS DE LA INFORMÁTICA	Physics fundamentals in Computer Engineering	Sum.	Spanish	Yes	Yes
40958	FUNDAMENTOS DE PROGRAMACIÓN II	Programming fundamentals 2	Sum.	Spanish	Yes	Yes
40959	ESTRUCTURA DE COMPUTADORES	Computer structure	Sum.	Spanish	No	No
40960	LA EMPRESA Y SUS PROCESOS	Enterprise processes	Sum.	Spanish	No	No
40955	HABILIDADES PROFESIONALES PARA INGENIEROS	Professional skills for engineers	Aut.	English	Yes	Yes

SECOND COURSE:

Code	Subject	Description	Semester	Teaching Lang.	Exam / assignments in English	Tutorial support English
40968	BASES DE DATOS I	Databases 1	Sum.	Spanish	No	No
40969	ARQUITECTURA DE COMPUTADORES	Computer Architecture	Sum.	Spanish	No	No
40970	FUNDAMENTOS DE LOS SISTEMAS OPERATIVOS	Operative Systems Fundamentals	Sum.	Spanish	Partially	Yes
40965	INGENIERÍA DEL SOFTWARE I	Software Engineering 1	Aut.	Spanish	Yes	Yes
40963	TECNOLOGÍAS DE PROGRAMACIÓN	Programming technologies	Aut.	Spanish	Yes	Yes
40961	MÉTODOS ESTADÍSTICOS	Statistics	Aut.	Spanish	Yes	No
40966	MÉTODOS NUMÉRICOS	Numerical Methods	Sum.	Spanish	Yes	Yes
40964	PERIFÉRICOS E INTERFACES	Peripherals and Interfaces	Aut.	Spanish	No	No
40962	ALGORITMOS Y PROGRAMACIÓN	Algorithms and programming	Aut.	Spanish	Yes	Yes
40967	ESTRUCTURAS DE DATOS Y PROGRAMACIÓN	Data structures and programming	Sum.	Spanish	Yes	Yes

THIRD COURSE:

<i>Code</i>	<i>Subject</i>	<i>Description</i>	<i>Semester</i>	<i>Teaching Lang.</i>	<i>Exam / assignments in English</i>	<i>Tutorial support English</i>
<u>40972</u>	<u>ADMINISTRACIÓN DE SISTEMAS OPERATIVOS</u>	Operative Systems Administration	Aut.	Spanish	Yes	Yes
<u>40973</u>	<u>BASES DE DATOS II</u>	Databases 2	Aut.	Spanish	No	No
<u>40974</u>	<u>FUNDAMENTOS DE LOS SISTEMAS INTELIGENTES</u>	Intelligent Systems Fundamentals	Aut.	Spanish	Yes	Yes
<u>40975</u>	<u>INGENIERÍA DEL SOFTWARE II</u>	Software Engineering 2	Aut.	Spanish	Yes	Yes
<u>40979</u>	<u>PRODUCCIÓN DE SOFTWARE</u>	Software Production [9 ECTS]	Sum.	Spanish	Yes	Yes
<u>40978</u>	<u>PROGRAMACIÓN WEB Y MÓVIL</u>	Web and Mobile Programming [9 ECTS]	Sum.	Spanish	Yes	Yes
<u>40971</u>	<u>REDES DE COMPUTADORES</u>	Computer Networks	Aut.	Spanish	-	-
<u>40977</u>	<u>VIRTUALIZACIÓN Y PROCESAMIENTO DISTRIBUIDO</u>	Virtualization and Distributed Processing	Sum.	Spanish	-	-
<u>40976</u>	<u>ADMINISTRACIÓN DE SERVICIOS EN RED</u>	Network Services Administration	Sum.	Spanish	-	-

FOURTH COURSE:

Code	Subject	Description	Semester	Teaching Lang.	Exam / assignments in English	Tutorial support English
40990	PRÁCTICAS EXTERNAS	Internships [12 ECTS]	Aut.	-	-	-
40991	TRABAJO FIN DE GRADO	Degree Thesis [12 ECTS]	Sum.	-	-	-
40989	PROYECTOS DE INGENIERÍA Y GESTIÓN DEL SOFTWARE	Engineering projects and software management	Sum.	English	Yes	Yes
40988	SEGURIDAD DE LA INFORMACIÓN	Information security	Sum.	Spanish	Yes	Partially

B) OPTIONAL SUBJECTS

Code	Subject	Description	Semester	Teaching Lang.	Exam / assignments in English	Tutorial support English
40984	COMPUTACIÓN EN LA NUBE	Cloud computing	Aut.	Spanish	Yes	Yes
40986	EMPRENDIMIENTO Y CREACIÓN DE EMPRESAS DE BASE TECNOLÓGICA	Entrepreneurship and creation of technology-based companies	Aut.	Spanish	No	No
40980	INFORMÁTICA GRÁFICA	Computer graphics	Aut.	Spanish	Yes	Yes
40985	INTERNET DE LAS COSAS	Internet of things	Aut.	Spanish	Yes	Yes
40987	LOS SISTEMAS DE INFORMACIÓN EN LA ORGANIZACIÓN	Information systems in the organization	Aut.	Spanish	Only exams	Yes
40983	PROGRAMACIÓN DE APLICACIONES MÓVILES NATIVAS	Native mobile application programming	Aut.	Spanish	Yes	Yes
40981	SISTEMAS ROBÓTICOS AUTÓNOMOS	Autonomous robotic systems	Aut.	Spanish	Yes	Yes
40982	VISIÓN POR COMPUTADOR	Computer vision	Aut.	Spanish	Yes	Yes