

Computer Engineering Degree Course 22/23

IMPORTANT: the study plan is being updated, so **special care** must be taken in order to identify available courses.

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**.

The first courses include common subjects while in the last one specific technology subjects are available.

A) COMMON SUBJECTS

FIRST COURSE: (new study plan)

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



SECOND COURSE: (new study plan)

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



THIRD COURSE: (new study plan)

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

FOURTH COURSE: (special conditions apply)

Code	Subject	Description	Semester	Teaching Lang.	Tutorial support English
40865	PRÁCTICAS EXTERNAS	External placements [12 ECTS]	Aut.	-	-
40866	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
40988	SEGURIDAD DE LA INFORMACIÓN	Information security	Sum.	Spanish	-

B) OPTIONAL SUBJECTS

Code	Subject	Description	Semester	Teaching Lang.	Tutorial support English
40984	COMPUTACIÓN EN LA NUBE	Cloud computing	Aut.	Spanish	-
40986	EMPRENDIMIENTO Y CREACIÓN DE EMPRESAS DE BASE TECNOLÓGICA	Entrepreneurship and creation of technology-based companies	Aut.	Spanish	-
40980	INFORMÁTICA GRÁFICA	Computer graphics	Aut.	Spanish	Yes
40985	INTERNET DE LAS COSAS	Internet of things	Aut.	Spanish	Yes
40987	LOS SISTEMAS DE INFORMACIÓN EN LA ORGANIZACIÓN	Information systems in the organization	Aut.	Spanish	-
40983	PROGRAMACIÓN DE APLICACIONES MÓVILES NATIVAS	Native mobile application programming	Aut.	Spanish	Yes
40981	SISTEMAS ROBÓTICOS AUTÓNOMOS	Autonomous robotic systems	Aut.	Spanish	Yes
40982	VISIÓN POR COMPUTADOR	Computer vision	Aut.	Spanish	Yes