

Type of competence	Code	Competence
Basic competences	CB6	To have and understand knowledge that provides a basis or opportunity to be original in the development and/or application of ideas, often in a research context.
	CB7	That students can apply the acquired knowledge and their problem-solving skills on new or little-known environments within broader (or multidisciplinary) contexts related with their study area
	CB8	That students can include knowledge and face the complexity of making judgements from information which, though incomplete or limited, includes reflections on social and ethical responsibilities linked to the application of their knowledge and judgement.
	CB9	That students can communicate their conclusions and knowledge and reasons that support them to specialised and non-specialised audiences clearly and unambiguously.
	CB10	That students have the necessary learning skills to continue studying largely in a self-directed or autonomous way.
General competences	CG01	Capacity to apply the scientific and technological aspects of mathematical, analytical and numerical methods on engineering, electrical engineering, chemical engineering, mechanical engineering, continuum mechanics, industrial electronics, automatics, manufacturing, materials, quantitative management methods, industrial IT, urban planning, infrastructures, etc.
	CG02	To project, calculate and design products, processes, installations and plants.
	CG03	To manage, plan and supervise multidisciplinary teams.
	CG04	To do research, development and innovation on products, processes and methods.
	CG05	To perform strategic planning and apply it to constructive, production, quality and environmental management systems.
	CG06	To manage projects, installations, plants, companies and technology centres both technically and economically.
	CG07	To be able to act as general manager, technical manager and R&D&i project manager in plants, companies and technology centres.
	CG08	To apply the acquired knowledge and solve problems in new or little-known environments within broader and multidisciplinary contexts.
	CG09	Knowledge, understanding and capacity to apply the necessary regulations practising the Industrial Engineer profession.
Cross-curricular competences	No data available.	
Specific competences	CTFM1	To carry out, present and defend, once all the credits required in the syllabus have been obtained, an original paper written individually before a university tribunal, which consists of a comprehensive Agricultural Engineering project of professional nature in which the competences acquired in the degree are shown.
	CMG1	Capacity to organise and run companies.
	CMG2	Strategic and planning capacities applied to different organizational structures.

Master's degree in Industrial Engineering
COMPETENCIES

CMG3	Ability to apply commercial and employment law.
CMG4	Ability to apply financial and cost accounting principles.
CMG5	Ability to apply information systems to the management, industrial organisation, production systems and logistics and quality management systems.
CMG6	Ability to organise the human resources work and management.
CMG7	Ability to apply health and safety policies.
CMG8	Ability for integrated project management.
CMG9	Ability to manage technological Research, Development and Innovation.
CMI1	Ability to design, build and exploit industrial plants.
CMI2	Ability to design, develop and apply advanced knowledge of construction, building, installations, infrastructures and urban planning on the industrial engineering area.
CMI3	Ability for calculus and structure design.
CMI4	Ability to project and design electrical and fluid installations, lighting, air conditioning and ventilation systems, energy saving and efficiency, acoustics, communications, home automation and intelligent buildings, and safety installations.
CMI5	Ability to apply advanced knowledge on industrial transport and support methods and techniques.
CMI6	Ability to verify and monitor installations , processes and products.
CMI7	Ability to carry out certifications, audits, verifications, tests and reports.
CMT1	Ability to analyse and design electric power generation, transport and distribution systems.
CMT2	Ability to project, calculate and design integrated manufacturing systems.
CMT3	Ability to design and test machines.
CMT4	Ability to analyse and design chemical processes.
CMT5	Ability to design and analyse thermal machines and engines, hydraulic machines and industrial heat and cold installations.
CMT6	Ability to understand, analyse, exploit and manage the different energy sources.
CMT7	Ability to design electronic and industrial measurement systems.
CMT8	Ability to design and project process automated production and advanced control systems.