

Label	EUR-ACE®
Higher Education Institution	UNIVERSIDAD CARLOS III DE MADRID
Country	SPAIN
State/Province	MADRID
Name of the Programme	<i>Bachelor's Degree in Mechanical Engineering</i>
Degree Awarded	BACHELOR'S DEGREE OF ENGINEERING
Qualification Level	<i>First Cycle</i>
Programme Objectives; Profile	<p><i>The profile of a graduate who has successfully completed studies for this degree course includes firstly, knowledge and understanding of the general basics of engineering in particular mechanical engineering. Graduates are able to follow analytical processes for solving problems in the field of mechanical engineering with initiative, decision making, creativity and critical reasoning. In addition, they will be able to design industrial products, machinery, mechanisms, vehicles, thermo-mechanical and hydraulic structures and installations that comply with required specifications collaborate with professionals in related technologies within multidisciplinary teams. Graduates will also have acquired research skills providing innovative contributions within the scope of mechanical engineering. Finally, graduates will be able to apply their knowledge and understanding to problem solving and designing devices or processes within the field of mechanical engineering taking into account cost, quality, safety, efficiency and respect for the environment. Finally this degree also provides generic skills that graduates will need as engineering professionals in current society: the ability for written and oral communication of knowledge, to both a specialised and non specialist public, working in multidisciplinary and international teams and undertaking ongoing learning necessary to enable them to adapt to new situations.</i></p> <p><i>The degree provides skills for the profession of Industrial Technical Engineer with mechanical</i></p>

	<i>specialization.</i>
Programme Duration	<i>8 Semesters</i>
Total Number of ECTS Credits Awarded	<i>240 ECTS</i>
Brief Description of the Programme	<p><i>The contents of this program include a primary set of science and engineering such as Physics, Mathematics, Visual Analysis, Statistics and Chemistry. Specific training in Mechanics, Solid Mechanics, Structural Mechanics, Thermal Engineering and Fluid Mechanics provides the basis for more technological subjects.</i></p> <p><i>The core of the training in specific technology related to the Mechanical Technological , with a total of 78 ECTS, is developed in the following areas: materials engineering, mechanical engineering, solid mechanics, theory of structures and construction, thermal engineering and fluid mechanics, which must guide the student in such a way that can intervene during his career in design phases, calculation, analysis, dimensioning, verification and maintenance machines, vehicles, structures, constructions and installations, taking into account relevant aspects that comply with the required specifications, and ability to collaborate with professionals in related technologies within multidisciplinary teams. All this training is completed with advanced electives of 3 ECTS each one. in which the student delves into the knowledge of the subjects of his specialty. Optionally, the student has the possibility of 6 ECTS of professional internships. On the other hand, the student must take 12 ECTS training in cross-cutting skills, and finally, 12 ECTS of Bachelor Thesis.</i></p>
Examples of Very Good Practice	<i>(Where applicable)</i>
Web site:	http://www.uc3m.es/ss/Satellite/UC3MInstitucion/en/Detalle/Estudio_C/1371206701577/1371206607588/Bachelor s Degree in Mechanical Engineering
Accredited without / with Adjustment Requirements	<i>Accredited</i>
Adjustment Requirements	
Accredited by	ANECA-IIE
Accredited	<i>From 1th August 2015 to 1th August 2020</i>