

LABEL	EUR-ACE®
<b>Higher education institution</b>	<i>Universitat Jaume I</i>
<b>Country</b>	<i>Spain</i>
<b>State/Province</b>	<i>Castelló</i>
<b>Name of the programme</b>	<i>Master's Degree in Design and Manufacturing</i>
<b>Degree awarded</b>	<i>Master's Degree</i>
<b>Qualification level</b>	<i>Second cycle</i>
<b>Programme objectives; profile</b>	<p><b>Objectives:</b> <i>To expand on and complement the initial training of graduates in the fields of mechanical engineering, industrial engineering design and product development, and industrial engineering. The training aims to convey the knowledge, skills and abilities needed to implement engineering projects in industrial design of products and machines, with a practical approach to promoting the use of scientific and technical knowledge, the use of advanced methodologies in engineering design and the use of computer-aided design, computer-aided engineering and computer-aided manufacturing technologies.</i></p> <p><b>Admission profile:</b> <i>Graduate in Mechanical Engineering. Graduate in Industrial Engineering Design and Product Development. Graduates in Industrial Technologies Engineering. Graduate in Electrical Engineering. Graduates in any discipline of Engineering related to product or machine development.</i></p>
<b>Programme duration</b>	<p><b>3 semesters.</b> Attendance required. <i>First academic year, 2 semesters. Second academic year, 1 semester dedicated to the master's thesis.</i></p>
<b>Total number of ECTS credits awarded</b>	<i>75 ECTS credits</i>
<b>Brief description of the programme</b>	<p><b>Homogenisation subjects. 4 ECTS credits (5%).</b> <i>Design Methodologies, Industrial Design Sketching, Basic Electronics, Fundamentals of Mechanical Design.</i></p> <p><b>Common subjects. Innovation and Design,</b></p>

	<p><b>11 ECTS credits (15%).</b> <i>Innovation and Patents, Computer-Aided Conceptual Design, Selection of Materials and Manufacturing Processes, Innovation and Design Project.</i></p> <p><b>Common subjects. Design and Computer-Aided Manufacturing. 22 ECTS credits (30%).</b> <i>Computer-Aided Design (CAD), Computer-Aided Engineering (CAE), Computer-Aided Manufacturing (CAM), Design and Manufacturing Management (Computer-Aided Design and Manufacturing Project).</i></p> <p><b>Optional subjects in Product Design. 19 ECTS credits (25%).</b> <i>Sustainable Design and Manufacturing, Prototyping and Product Launch.</i></p> <p><b>Optional subjects in Machine Design. 19 ECTS credits (25%).</b> <i>Mechanical Design and Machinery Safety, Machine Drives and Control.</i></p> <p><b>Master's Thesis. 19 ECTS credits (25%).</b> <i>Master's Thesis. Conceptual Stage. 2 ECTS credits.</i> <i>Master's Thesis. Preliminary Stage. 2 ECTS credits.</i> <i>Master's Thesis. 15 ECTS</i></p> <p><b>Work placement. Optional. 12 ECTS credits.</b></p>
<p><b>Examples of very good practice</b></p>	<p><i>Engineering project-based training.</i> <i>Extensive use of standards and technology.</i> <i>Highly qualified teaching staff with teaching and research experience in the fields of engineering related to the Master's Degree subjects.</i> <i>Laboratories and computer rooms with the most up-to-date resources.</i> <i>Study room exclusively for the Master's students.</i> <i>Collaboration with national and international companies to perform optional external work placements (Erasmus+).</i> <i>High rate of employability.</i> <i>The training process encourages participation in international competitions such as IFDesign, Electrolux Designlab, James Dyson Design Awards.</i></p> <p><b>Companies and graduates linked with the degree course:</b> <i>Dolz, MACER, IPLA, Talleres Cortés, Cretaprint, Joan Rojeski, Studio Vitale, Clausell Studio.</i></p>

<b>Accredited with/without adjustment requirements</b>	<i>Label awarded without prescriptions</i>
<b>Adjustment requirements</b>	
<b>Accredited by</b>	<b><i>ANECA in collaboration with the Spanish Engineering Institute (Instituto de la Ingeniería de España)</i></b>
<b>Accredited</b>	<i>From 3 March 2016 to 3 March 2020</i>