

Master's Degree Qualifications for Engineering (Academically-oriented) 7th Level (MASTER'S DEGREE)

NQF-HETR LEVEL	KNOWLEDGE (KNW) -Theoretical -Conceptual	SKILLS (SKL) -Cognitive -Practical	PERSONAL & OCCUPATIONAL COMPETENCES			
			Autonomy & Responsibility Competence (ACR)	Learning to Learn Competence (LLC)	Communication and Social Competence (CSC)	Occupational and/or Vocational Competence (OVC)
<p>7th CYCLE MASTER'S</p> <p>EQF-LLL: 7th CYCLE</p> <p>QF-EHEA: 2nd CYCLE</p>	<p>KNW 1- have access to advanced knowledge in the field of engineering through scientific research; evaluate, interpret and apply knowledge.</p> <p>KNW 2- have extensive knowledge on recent techniques and methods used in engineering, and the constraints of these techniques and methods.</p> <p>KNW 3- complete and apply knowledge based on limited or deficient data through scientific methods; integrate knowledge from different disciplines.</p> <p>KNW 4- are aware of new and developing applications in the profession; examine and learn these applications, when required.</p>	<p>SKL 1- complete and apply knowledge based on limited or deficient data through scientific methods; integrate knowledge from different disciplines.</p> <p>SKL 2- define problems related with engineering; and develop methods for their solution, and use innovative methods in problem solving.</p> <p>SKL 3- generate new and/or original ideas and methods; and develop innovative solutions in system, component or process designs.</p> <p>SKL 4- design and conduct analytical, modeling and experiment-based research; solve and interpret complex problems encountered in this process.</p>	<p>ACR 1- assume the leadership role in multi-disciplinary teams; produce solutions in complicated situations and take responsibility.</p> <p>ACR 2- have access to advanced knowledge in the field of engineering through scientific research; evaluate, interpret and apply knowledge.</p> <p>ACR 3- complete and apply knowledge based on limited or deficient data through scientific methods; integrate knowledge from different disciplines.</p> <p>ACR 4- define problems related with engineering; and develop methods for their solution, and use innovative methods in problem solving.</p> <p>ACR 5- generate new and/or original ideas and methods; and develop innovative solutions in system, component or process designs.</p> <p>ACR 6- design and conduct analytical, modeling and experiment-based research; solve and interpret complex problems encountered in this process.</p>	<p>LLC 1- are aware of new and developing applications in the profession; examine and learn these applications, when required.</p> <p>LLC 2- complete and apply knowledge based on limited or deficient data through scientific methods; integrate knowledge from different disciplines.</p> <p>LLC 3- define problems related with engineering; and develop methods for their solution, and use innovative methods in problem solving.</p> <p>LLC 4- generate new and/or original ideas and methods; and develop innovative solutions in system, component or process designs.</p>	<p>CSC 1- establish oral and written communication in a foreign language at minimum B2 level, as defined by the European Language Portfolio.</p> <p>CSC 2- report systematically and clearly in written or oral form the processes and results of their research/work in national and international settings.</p> <p>CSC 3- describe social and environmental aspects of engineering applications.</p> <p>CSC 4- have access to advanced knowledge in the field of engineering through scientific research; evaluate, interpret and apply knowledge.</p> <p>CSC 5- complete and apply knowledge based on limited or deficient data through scientific methods; integrate knowledge from different disciplines.</p> <p>CSC 6- define problems related with engineering; and develop methods for their solution, and use innovative methods in problem solving.</p> <p>CSC 7- have extensive knowledge on recent techniques and methods used in engineering, and the restrictions of these techniques and methods.</p> <p>CSC 8- design and conduct analytical, modeling and experiment-based research; solve and interpret complex problems encountered in this process.</p>	<p>OVC 1- comply with social, scientific and ethical values in the process of collecting, interpreting and reporting data, and in all professional activities.</p> <p>OVC 2- complete and apply knowledge based on limited or deficient data through scientific methods; integrate knowledge from different disciplines.</p> <p>OVC 3- assume the leadership role in multi-disciplinary teams; produce solutions in complicated situations and take responsibility.</p> <p>OVC 4- report systematically and clearly in written or oral form the processes and results of their research/work in national and international settings.</p>