

FIELDS OF QUALIFICATIONS IN NQF-HETR: ENGINEERING		PROGRAMME OUTCOMES (POs)														
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15
Knowledge	KNW 1	■	■	■												
	KNW 2			■						■						
	KNW 3	■	■		■											
	KNW 4								■							
Skills	SKL 1	■	■		■											
	SKL 2			■		■								■		
	SKL 3						■									
	SKL 4					■	■						■			
Competence (Autonomy and Responsibility Competence)	ARC 1		■		■			■								■
	ARC 2													■		
	ARC 3	■	■		■											
	ARC 4					■										
	ARC 5					■	■									
	ARC 6					■	■						■			
Competence (Learning to Learn Competence)	LLC 1						■		■							
	LLC 2	■	■		■											
	LLC 3			■										■		
	LLC 4						■									
Competence	CSC 1											■				

**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)
7th CYCLE MASTER'S EQF-LLL: 7th CYCLE QF-EHEA: 2nd CYCLE	Qualifications that signify completion of the seventh cycle are awarded to students who					
	KNW 1- have access to advanced knowledge in the field of engineering through scientific research; evaluate, interpret and apply knowledge.	SKL 1- complete and apply knowledge based on limited or deficient data through scientific methods; integrate knowledge from different disciplines.	ACR 1- assume the leadership role in multi-disciplinary teams; produce solutions in complicated situations and take responsibility.	LLC 1- are aware of new and developing applications in the profession; examine and learn these applications, when required.	CSC 1- establish oral and written communication in a foreign language at minimum B2 level, as defined by the European Language Portfolio.	OVC 1- comply with social, scientific and ethical values in the process of collecting, interpreting and reporting data, and in all professional activities.
	KNW 2- have extensive knowledge on recent techniques and methods used in engineering, and the constraints of these techniques and methods.	SKL 2- define problems related with engineering; and develop methods for their solution, and use innovative methods in problem solving.	ACR 2- have access to advanced knowledge in the field of engineering through scientific research; evaluate, interpret and apply knowledge.	LLC 2- complete and apply knowledge based on limited or deficient data through scientific methods; integrate knowledge from different disciplines.	CSC 2- report systematically and clearly in written or oral form the processes and results of their research/work in national and international settings.	OVC 2- complete and apply knowledge based on limited or deficient data through scientific methods; integrate knowledge from different disciplines.
	KNW 3- complete and apply knowledge based on limited or deficient data through scientific methods; integrate knowledge from different disciplines.	SKL 3- generate new and/or original ideas and methods; and develop innovative solutions in system, component or process designs.	ACR 3- complete and apply knowledge based on limited or deficient data through scientific methods; integrate knowledge from different disciplines.	LLC 3- define problems related with engineering; and develop methods for their solution, and use innovative methods in problem solving.	CSC 3- describe social and environmental aspects of engineering applications.	OVC 3- assume the leadership role in multi-disciplinary teams; produce solutions in complicated situations and take responsibility.
KNW 4- are aware of new and developing applications in the profession; examine and learn these applications, when required.	SKL 4- design and conduct analytical, modeling and experiment-based research; solve and interpret complex problems encountered in this process.	ACR 4- define problems related with engineering; and develop methods for their solution, and use innovative methods in problem solving.	LLC 4- generate new and/or original ideas and methods; and develop innovative solutions in system, component or process designs.	CSC 4- have access to advanced knowledge in the field of engineering through scientific research; evaluate, interpret and apply knowledge.	OVC 4- report systematically and clearly in written or oral form the processes and results of their research/work in national and international settings.	
		ACR 5- generate new and/or original ideas and methods; and develop innovative		CSC 5- complete and apply knowledge based on limited or deficient data through scientific		

		<p>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>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>	
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