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**FIELDS OF QUALIFICATIONS IN NQF-HETR**  
**52 - ENGINEERING AND ENGINEERING TRADES**

NQF-HETR LEVEL	KNOWLEDGE (KNW) -Theoretical -Conceptual	SKILLS (SKL) -Cognitive -Practical	PERSONAL AND OCCUPATIONAL COMPETENCES			
			Autonomy and Respon- sibility Competence (ACR)	Learning to Learn Competence (LLC)	Communication and Social Competence (CSC)	Occupational and/or Voca- tional Competence (OVC)
<b>6</b> <b>BACHE- LOR'S</b>  <b>EQF-LLL:</b> <b>6. Level</b>  <b>QF-EHEA:</b> <b>1. Cycle</b>	<b>KNW 1-</b> The student has sufficient back-ground in the fields of mathematics, science and engi-neering fields related to his field.	<b>SKL 1-</b> The student has the ability to use math-ematics, sciences and theoretical knowledge together to solve prob-lems related to engi-neering.  <b>SKL 2-</b> The student identifies, defines, formulates and solves the problems in engi-neering, selects and applies appropriate analytical methods and modeling techniques.  <b>SKL 3-</b> The student applies modern design techniques to analyze a process which defines the requirements of a system.  <b>SKL 4-</b> The student has the ability to choose the correct modern and technical equipment for engineering applica-tions.  <b>SKL 5-</b> The student designs and makes experiments, and col-lects the data and inter-prets the results.	<b>ACR 1-</b> The student works efficiently either individually or in a very disciplined team  <b>ACR 2-</b> The student uses the databases and other informa-tive sources to gather infor-mation.	<b>LLC 1-</b> The student uses the databases and other informative sources to gather information.  <b>LLC 2-</b> The student is aware of the need for 'Lifelong Learn-ing' and develops his knowledge about his job.  <b>LLC 3-</b> The student has the ability to use mathematics, sciences and theoretical knowledge together to solve problems related to engineering.  <b>LLC 4-</b> The student identifies, defines, formulates and solves the problems in engineering, selects and applies appropriate analytical methods and model-ing techniques.  <b>LLC 5-</b> The student applies modern design techniques to analyze a process which defines the requirements of a system.  <b>LLC 6-</b> The student has the ability to choose the correct modern and technical equip-ment for engineering applica-tions.  <b>LLC 7-</b> The student works efficiently either individually or in a very disciplined team.	<b>CSC 1-</b> The student uses advanced computer programs (European Computer Using License at least) and communicative technologies in his field.  <b>CSC 2-</b> The student uses a foreign language to communicate effectively in spoken and written ways.  <b>CSC 3-</b> The student has the ability to communicate using technical drawings.  <b>CSC 4-</b> The student uses the data-bases and other informative sources to gather information.  <b>CSC 5-</b> The student is aware of engineering solutions in a global and societal context and practices, and the effects of entrepreneurship and innovation.	<b>OVC 1-</b> The student has profes-sional and ethical responsibility.  <b>OVC 2-</b> The student is aware of project management, workplace practices, employee health, envi-ronmental and occupational safety; and about the legal implica-tions of engineering applications.  <b>OVC 3-</b> The student is aware of the effects of engineering solu-tions and applications shows that the global and societal context; aware of entrepreneurship and innovation and a knowledge of contemporary issues.