| FIELDS OF QUALIFICATIONS IN NQF-HETR: ENGINEERING | | PROGRAMME OUTCOMES (POs) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 |
| Knowledge | KNW 1 | ■ | | | | | | | | |
| | KNW 2 | ■ | | | | | | | | |
| Skills | SKL 1 | ■ | ■ | | | | | | | |
| | SKL 2 | | ■ | | | | | | | |
| | SKL 3 | ■ | ■ | | | | | | | |
| | SKL 4 | ■ | | | | | | | | |
| | SKL 5 | | ■ | ■ | | | | | | |
| Competence (Autonomy and Responsibility Competence) | ARC 1 | | | | | ■ | | | | |
| | ARC 2 | | ■ | ■ | ■ | | | | | |
| | ARC 3 | | | | | | | | | ■ |
| Competence (Learning to Learn Competence) | LLC 1 | | ■ | ■ | ■ | | | | | |
| | LLC 2 | | | | ■ | | ■ | | | |
| | LLC 3 | | ■ | ■ | ■ | | ■ | | | |
| | LLC 4 | | | | | ■ | | ■ | ■ | |
| Competence (Communication and Social Competence) | CSC 1 | | ■ | ■ | | | ■ | | | |
| | CSC 2 | | | | | | | ■ | ■ | |
| Competence (Occupational and/or Vocational Competence) | OVC 1 | | | | | | | | | ■ |
| | OVC 2 | | | | | | | | ■ | ■ |

**Doctorate Degree Qualifications for Engineering (Academically-oriented)**
**8th Level (DOCTORATE DEGREE)**

| NQF-HETR LEVEL | KNOWLEDGE (KNW)<br><br>-Theoretical<br>-Conceptual | SKILLS (SKL)<br><br>-Cognitive<br>-Practical | PERSONAL & OCCUPATIONAL COMPETENCES | | | |
|---|---|---|---|---|---|---|
| | | | Autonomy & Responsibility Competence (ACR) | Learning to Learn Competence (LLC) | Communication and Social Competence (CSC) | Occupational and/or Vocational Competence (OVC) |
| | Qualifications that signify completion of the eighth cycle are awarded to students who | | | | | |
| **8th CYCLE DOCTORATE**<br><br>**EQF-LLL:**<br>8th CYCLE<br><br>**QF-EHEA:**<br>3rd CYCLE | **KNW** 1- have utmost knowledge on basic sciences, mathematics, and engineering sciences; and apply this knowledge.<br><br>**KNW** 2- have extensive knowledge in the field, including recent developments. | **SKL** 1-have access to the most recent information in the field; have advanced methods and skills required to conduct research, using this information.<br><br>**SKL** 2- conduct a comprehensive study that either develops a new scientific method or technological product/process, or applies a known method in another field, bringing innovation to science or technology.<br><br>**SKL** 3- define and apply basic sciences, mathematics, and engineering sciences at the utmost level.<br><br>**SKL** 4- have profound and extensive knowledge in the field, including recent developments.<br><br>**SKL** 5- independently design, apply, finalize and manage the process of an original research. | **ACR** 1 - contribute to national and international literature of science and technology, publishing the outcomes of academic research in prestigious academic journals.<br><br>**ACR** 2- conduct a comprehensive study that either develops a new scientific method or technological product/process, or applies a known method in another field, bringing innovation to science or technology.<br><br>**ACR** 3- evaluate scientific, technological, social and cultural developments and impart such knowledge to the society, in consideration of scientific impartiality and ethical responsibility. | **LLC** 1 - design, apply, finalize and manage independently the process of an original research.<br><br>**LLC** 2- have access to the most recent information in the field; have advanced methods and skills required to conduct research, using this information.<br><br>**LLC** 3- conduct a comprehensive study that either develops a new scientific method or technological product/process, or applies a known method in another field, bringing innovation to science or technology.<br><br>**LLC** 4- contribute to national and international literature of science and technology, publishing the outcomes of academic research in prestigious academic journals. | **CSC** 1 - make critical analysis, synthesis and evaluation of ideas and developments in the related field.<br><br>**CSC** 2- communicate effectively with specialist audience as well as with larger scientific and social communities; and communicate and discuss in oral and written form in a foreign language at minimum C1 level, as defined by the European Language Portfolio. | **OVC** l- evaluate scientific, technological, social and cultural developments and impart such knowledge to the society, in consideration of scientific impartiality and ethical responsibility.<br><br>**OVC** 2- communicate effectively with specialist audience as well as with larger scientific and social communities; and communicate and discuss in oral and written form by speaking a foreign language at minimum C1 level, as defined by the European Language Portfolio. |

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