| FIELDS OF | | PROGRAMME OUTCOMES (POs) | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| QUALIFICATIONS HETR: ENGINEE | QUALIFICATIONS IN NQF- HETR: ENGINEERING | | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PO13 | PO14 | PO15 | PO16 | PO17 | PO18 | PO19 | PO20 | PO21 | PO22 | PO23 |
| Knowledge | KNW 1 | | | | | | | | | | | | | | | | | | | | | | | |
| | SKL 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Skills | SKL 2 | | | | | | | | | | | | | | | | | | | | | | | |
| SKIIIS | SKL 3 | | | | | | | | | | | | | | | | | | | | | | | |
| | SKL 4 | | | | | | | | | | | | | | | | | | | | | | | |
| | SKL 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Competence (Autonomy and | ARC 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Responsibility Competence) | ARC 2 | | | | | | | | | | | | | | | | | | | | | | | |
| | LLC 1 | | | | | | | | | | | | | | | | | | | | | | | |
| | LLC 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Competence | LLC 3 | | | | | | | | | | | | | | | | | | | | | | | |
| (Learning to Learn Competence) | LLC 4 | | | | | | | | | | | | | | | | | | | | | | | |
| Competence) | LLC 5 | | | | | | | | | | | | | | | | | | | | | | | |
| | LLC 6 | | | | | | | | | | | | | | | | | | | | | | | |
| | LLC 7 | | | | | | | | | | | | | | | | | | | | | | | |
| | CSC 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Competence | CSC 2 | | | | | | | | | | | | | | | | | | | | | | | |
| (Communication and Social Competence) | CSC 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Social Competence) | CSC 4 | | | | | | | | | | | | | | | | | | | | | | | |
| | CSC 5 | | | | | | | | | | | | | | | | | | | | | | | |

| Competence (Occupational and/or Vocational | OVC 1 | | | | | | | | | | | | |
|--|-------|--|--|--|--|--|--|--|--|--|--|--|--|
| Vocational | OVC 2 | | | | | | | | | | | | |
| Competence) | OVC 3 | | | | | | | | | | | | |

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

| | WYOW EDGE | | PERSONAL & OCCUPATIONAL COMPETENCES | | | | | | | | | | |
|--|---|--|--|---|--|--|--|--|--|--|--|--|--|
| NQF-HETR LEVEL | KNOWLEDGE (KNW) -Theoretical -Conceptual | SKILLS (SKL) -Cognitive -Practical | Autonomy & Responsibility Competence (ACR) | Learning to Learn Competence (LLC) | Communication and Social Competence (CSC) | Occupational and/or Vocational Competence (OVC) | | | | | | | |
| 6 BACHELOR'S —— EQF-LLL: 6. Level —— QF-EHEA: 1. Cycle | KNW 1- The student has sufficient background in the fields of mathematics, science and engineering fields related to his field. | SKL 1- The student has the ability to use mathematics, sciences and theoretical knowledge together to solve problems related to engineering. SKL 2- The student identifies, defines, formulates and solves the problems in engineering, selects and applies appropriate analytical methods and modeling techniques. SKL 3- The student applies modern design techniques to analyze a process which defines the requirements of a system. SKL 4- The student | ACR 1- The student works efficiently either individually or in a very disciplined team ACR 2- The student uses the databases and other informative sources to gather information. | LLC 1- The student uses the databases and other informative sources to gather information. LLC 2- The student is aware of the need for 'Lifelong Learning' and develops his knowledge about his job. LLC 3- The student has the ability to use mathematics, sciences and theoretical knowledge together to solve problems related to engineering LLC 4- The student identifies, defines, | CSC 1- The student uses advanced computer programs(European Computer Using License at least) and communicative technologies in his field CSC 2- The student uses a foreign language to communicate effectively in spoken and written ways CSC 3- The student has the ability to communicate using technical drawings CSC 4- The student uses the databases and other informative sources to gather information. CSC 5- The student is aware of engineering solutions in a global | OVC 1- The student has professional and ethical responsibility. OVC 2- The student is aware of project management, workplace practices, employee health, environmental and occupational safety; and about the legal implications of engineering applications. OVC 3- The student is aware of the effects of engineering solutions and applications shows that the global and societal context; | | | | | | | |

| has the ability to | formulates and | and societal context | aware of |
|---------------------------|--------------------|------------------------|--------------------|
| choose the correct | solves the | and practices, and the | entrepreneurship |
| modern and technical | problems in | effects of | and innovation and |
| equipment for | engineering, | entrepreneurship and | a knowledge of |
| engineering | selects and | innovation. | contemporary |
| applications. | applies | | issues. |
| | appropriate | | |
| SKL 5- The student | analytical | | |
| designs and makes | methods and | | |
| experiments, and | modeling | | |
| collects the data and | techniques. | | |
| interprets the results. | | | |
| | LLC 5- The | | |
| | student applies | | |
| | modern design | | |
| | techniques to | | |
| | analyze a process | | |
| | which defines the | | |
| | requirements of a | | |
| | system. | | |
| | | | |
| | LLC 6- The | | |
| | student has the | | |
| | ability to choose | | |
| | the correct | | |
| | modern and | | |
| | technical | | |
| | equipment for | | |
| | engineering | | |
| | applications. | | |
| | | | |
| | LLC 7- The | | |
| | student works | | |
| | efficiently either | | |
| | individually or in | | |
| | a very disciplined | | |
| | team. | | |
| | | | |