

| TYYÇ Engineering Basic Field Competencies (Academic Maintenance) Level 7 (MASTER'S Education) | | | | | | |
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| TYYÇ LEVEL | INFORMATION (BLG) -Theoretical -Factual | SKILLS (BCR) -Cognitive -Applied | PERSONAL AND PROFESSIONAL COMPETENCIES | | | |
| | | | Ability to Work Independently and Take Responsibility (BÇSAY) | Learning Competence (ÖY) | Communication and Social Competence (İSY) | Field-Specific Competence (AÖY) |
| <p>7 Master Degree EQF-LLL: 7. Level QF-EHEA: 2. Level</p> | <p>BLG 1- Accesses knowledge in depth and breadth by conducting scientific research in the field of engineering, evaluates, interprets and applies the knowledge. BLG 2-Has comprehensive knowledge about current techniques and methods applied in engineering and their limitations. BLG 3- Completes and applies knowledge with scientific methods using limited or incomplete data; Integrates knowledge from different disciplines. BLG 4- Is aware of the new and developing practices of his profession and examines and learns them when necessary.</p> | <p>BCR 1-Supplements and applies knowledge using scientific methods using limited or incomplete data; Integrates knowledge from different disciplines. BCR 2-Constructs engineering problems, develops methods to solve them, and applies innovative methods in solutions. BCR 3-Develops new and/or original ideas and methods; Develops innovative solutions in system, part or process designs. BCR 4-Designs and implements analytical, modeling and experimental based research; Analyzes and interprets complex situations encountered in this process.</p> | <p>BCSAY 1- Leads multidisciplinary teams, develops solution approaches in complex situations and takes responsibility. BCSAY 2- Accesses knowledge in depth and breadth by conducting scientific research in the field of engineering, evaluates, interprets and applies the knowledge. BCSR 3- Completes and applies knowledge with scientific methods using limited or incomplete data; Integrates knowledge from different disciplines. BCSAY 4- Constructs engineering problems, develops methods to solve them and applies innovative methods in solutions. BCSAY 5- Develops new and/or original ideas and methods; Develops innovative solutions in system, part or process designs. BCSR 6- Designs and implements analytical, modeling and experimental based research; Analyzes and interprets complex situations encountered in this process.</p> | <p>ÖY 1-Aware of new and developing practices of his profession; examines and learns them when necessary. ÖY 2-Complete and apply knowledge with scientific methods using limited or incomplete data; Integrates knowledge from different disciplines. ÖY 3-Constructs engineering problems, develops methods to solve them, and applies innovative methods in solutions. ÖY 4-Develops new and/or original ideas and methods; Develops innovative solutions in system, part or process designs.</p> | <p>İSY 1-Communicates verbally and in writing by using a foreign language at least at the European Language Portfolio B2 General Level. İSY 2-Transmits the processes and results of its studies systematically and clearly, in writing or verbally, in national and international environments in that field or outside the field. İSY 3-Describes the social and environmental dimensions of engineering practices. İSY 4-Accesses knowledge in depth and breadth by conducting scientific research in the field of engineering, evaluates, interprets and applies the knowledge. İSY 5-Supplements and applies knowledge with scientific methods using limited or incomplete data; Integrates knowledge from different disciplines. İSY 6-Constructs engineering problems, develops methods to solve them, and applies innovative methods in solutions. İSY 7-Has comprehensive knowledge about current techniques and methods applied in engineering and their limitations. İSY 8-Designs and implements analytical, modeling and experimental based research; Analyzes and interprets complex situations encountered in this process.</p> | <p>AÖY 1-Observes social, scientific and ethical values in the collection, interpretation and dissemination of data and in all professional activities. AÖY 2-Completes and applies knowledge with scientific methods using limited or incomplete data; Integrates knowledge from different disciplines. AÖY 3-Leads multidisciplinary teams, develops solution approaches in complex situations and takes responsibility. AÖY 4-Transfers the processes and results of his/her studies systematically and clearly in written or oral form in national and international environments in that field or outside the field.</p> |