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|  | - Theoretical  -Practical | PROGRAM EXPECTED OUTCOMES | (NQF-HETR) | QoFoE |
| Sufficient knowledge of engineering subjects related with mathematics, science and Metallurgical and Materials Engineering; an ability to apply theoretical and practical knowledge on solving and modeling of Metallurgical and Materials Engineering  problems | 1 | 1 |
| NATIONAL QUALIFICATIONS FRAMEWORK FOR HIGHER EDUCATION IN TURKEY | QUALIFICATIONS OF FIELDS OF EDUCATION | |
| 1. Ability to develop, select and use modern methods and tools required for Metallurgical and Materials Engineering  applications; ability to effective use of information technologies | 1. Graduates, Metallurgical and Materials Engineering have sufficient knowledge of the fundamental principles and engineering studies in related fields. | |
| Skills | - Conceptual  - Cognitive | PROGRAM EXPECTED OUTCOMES | (NQF-HETR) | QOFOE |
| Ability to determine, define, formulate and solve complex Metallurgical and Materials Engineering  problems; for that purpose an ability to select and use convenient analytical and experimental methods. | 1,2 | 1,5 |
| Ability to design a complex system, a component and/or an engineering process under real life constrains or conditions, defined by environmental, economical and political problems; for that purpose an ability to apply modern design methods. | 1,2 | 3 |
| Ability to develop, select and use modern methods and tools required for Metallurgical and Materials Engineering applications; ability to effective use of information technologies. | 1,2 | 3 |
| In order to investigate Metallurgical and Materials Engineering  problems; ability to set up and conduct experiments and ability to analyze and interpretation of experimental results. | 1,2 | 2,4 |
| NATIONAL QUALIFICATIONS FRAMEWORK FOR HIGHER EDUCATION IN TURKEY | QUALIFICATIONS OF FIELDS OF EDUCATION | |
| Ability to use the advanced theoretical and practical knowledge acquired in the field. | Ability to determine, define, formulate and solve complex Engineering  problems; for that purpose an ability to select and use convenient analytical and experimental methods. | |