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|  | | | | **FACULTY OF CHEMISTRY-METALLURGY**  **DEPARTMENT OF METALLURGY AND MATERIAL ENGINEERING**  **EXAMINATION PAPER** | | | | | | | | | | | | | | | |  | | | | | | |
| Code and Name of Course | | | | **MSE3912 -**  **Engineering Materials** | | | | | | | | | | | | | | | | Student's Signature | | | | Attendance Number | | |
| Student's Name and Surname | | | |  | | | | | | | | | | Student number | | |  | | |  | | | |  | | |
| Term of Course | | | | 2021–2022  Fall  Spring Summer School | | | | | | | | | | Duration | | |  | | | Total grade: | | | | | | |
| Lecturer | | | | Prof. Dr. Mustafa ÇİĞDEM | | | | | | | | | | Group No. | | |  | | |  | | | | | | |
| Date and Time of Exam | | | |  | | | | | | | 1st Midterm  Homework  Final exam  Make-up exam | | | | | | | | | | | | | | | |
| *Sınav Değerlendirme Bölümü* | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Qusetion** | **1** | **2** | **3** | | **4** | **5** | **6** | **7** | **8** | **9** | | **10** | **11** | | **12** | **13** | | **14** | **15** | | **16** | **17** | **18** | | **19** | **20** |
| **Point of the question** | 100 |  |  | |  |  |  |  |  |  | |  |  | |  |  | |  |  | |  |  |  | |  |  |
| **POC** | 2.1 |  |  | |  |  |  |  |  |  | |  |  | |  |  | |  |  | |  |  |  | |  |  |
| **Grade** |  |  |  | |  |  |  |  |  |  | |  |  | |  |  | |  |  | |  |  |  | |  |  |

**1 )** Subject of engineering materials homework: Classify cast irons, specify abbreviated designation and mechanical properties (tensile strength and % elongation values) according to TSE standards. Draw typical microstructural images of each group, giving brief information about the composition and production method. The assignment is limited to a maximum of 4 pages. Homework will be delivered in class on May 24, 2022 during the lesson.

Mühendislik malzemeleri ödevi konusu: Dökme demirleri sınıflandırınız, TSE standartlarına göre kısaltılmış gösterilişi ve mekanik özelliklerini(çekme mukavemeti ve % uzama değerleri) belirtiniz. Her bir grubun bileşimi ve üretim şekli hakkında kısa bilgi vererek tipik mikroyapısal görüntülerini çiziniz. Ödev maksimum 4 sayfa ile sınırlıdır. Ödev teslimi 24 Mayıs 2022 tarihinde ders esnasında sınıfta yapılacaktır.