**ESOGU MECHANICAL ENGINEERING DEPARTMENT**

**COURSE INFORMATION FORM**

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| **Course Name** | **Course Code** |
| Occupational Health and Safety II | 151812XXX |

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| **Semester** | **Number of Course Hours per Week** | **ECTS** |
| **Theory** | **Practice** |
| 2 | 2 | 0 | 2 |

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| **Course Category (Credit)** |
| **Basic Sciences** | **Engineering Sciences** | **Design** | **General Education** | **Social** |
|  | 2 |  |  |  |

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| **Course Language** | **Course Level** | **Course Type** |
| Turkish | Undergraduate | Compulsory |

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| **Prerequisite(s) if any** |  |
| **Objectives of the Course** | To raise occupational health and safety awareness in the sector, to be able to identify risks in different sectoral areas, to be able to make risk assessment using the risk management approach. |
| **Short Course Content** | Occupational health and safety, risk management, risk identification and assessment in different sectors |

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| **Learning Outcomes of the Course** | **Contributed PO(s)**  | **Teaching Methods \*** | **Measuring Methods \*\*** |
| **1** | Understands the importance of occupational health and safety. | 1, 2, 5, 7 | 1, 2, 5, 10, 11 | A |
| **2** | Learns about occupational health and safety studies in different sectors. | 1, 2, 7 | 1, 2, 5, 10, 11 | A |
| **3** | Develops workplace organization skills based on occupational health and safety principles. | 1, 2, 7 | 1, 2, 5, 10, 11 | A |
| **4** | Can identify risks and perform risk control. | 1, 2, 7 | 1, 2, 5, 10, 11 | A |
| **5** | Acquires the ability to perform risk assessment. | 1, 2, 7 | 1, 2, 5, 10, 11 | A |
| **6** |  |  |  |  |
| **7** |  |  |  |  |
| **8** |  |  |  |  |

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| **Main Textbook** | OHS Regulations |
| **Supporting References** | İş Güvenliği, Abdulvahap Yiğit, 2. Basım, Dora Yayınevi, 2018  |
| **Necessary Course Material** |  |

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| **Course Schedule** |
| **1** | Occupational safety in working with screened vehicles |
| **2** | OHS in Design, Manufacturing and Use of Work Equipment |
| **3** | OHS in Lifting and Carrying Vehicles |
| **4** | OHS in Electrical Work |
| **5** | OHS in Maintenance and Repair Work |
| **6** | OHS in Pressure Vessels |
| **7** | OHS in Pressure Vessels |
| **8** | Mid-Term Exam |
| **9** | OHS in Welding Work |
| **10** | OHS in Working in Closed Areas |
| **11** | Fire and Fire Protection |
| **12** | OHS in Motor Vehicles |
| **13** | Risk Management Approach |
| **14** | Risk Assessment Methods |
| **15** | Risk Assessment Methods |
| **16,17** | Final Exam |

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| **Calculation of Course Workload** |
| **Activities** | **Number** | **Time (Hour)** | **Total Workload (Hour)** |
| Course Time (number of course hours per week) | 14 | 2 | 28 |
| Classroom Studying Time (review, reinforcing, prestudy,….) | 14 | 1 | 14 |
| Homework |  |  |  |
| Quiz Exam |  |  |  |
| Studying for Quiz Exam |  |  |  |
| Oral exam  |  |  |  |
| Studying for Oral Exam  |  |  |  |
| Report (Preparation and presentation time included) |  |  |  |
| Project (Preparation and presentation time included) |  |  |  |
| Presentation (Preparation time included) |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Mid-Term Exam | 1 | 1 | 1 |
| Studying for Mid-Term Exam | 1 | 5 | 5 |
| Final Exam | 1 | 1 | 1 |
| Studying for Final Exam | 1 | 5 | 5 |
|  | **Total workload** | **54** |
|  | **Total workload / 30** | **1.8** |
|  | **Course ECTS Credit** | **2** |

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| **Evaluation** |
| **Activity Type** | **%** |
| Mid-term | 50 |
| Quiz |  |
| Homework |  |
| Bir öğe seçin. |  |
| Bir öğe seçin. |  |
| **Final Exam** | 50 |
| **Total** | 100 |

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| **RELATIONSHIP BETWEEN THE COURSE LEARNING OUTCOMES AND THE PROGRAM OUTCOMES (PO)** (5: Very high, 4: High, 3: Middle, 2: Low, 1: Very low) |
| **NO** | **PROGRAM OUTCOME** | **Contribution** |
| **1** | Sufficient knowledge of engineering subjects related with mathematics, science and own branch; an ability to apply theoretical and practical knowledge on solving and modeling of engineering problems. | 4 |
| **2** | Ability to determine, define, formulate and solve complex engineering problems; for that purpose an ability to select and use convenient analytical and experimental methods. | 1 |
| **3** | 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 |
| **4** | Ability to develop, select and use modern methods and tools required for engineering applications; ability to effective use of information technologies. | 1 |
| **5** | In order to investigate engineering problems; ability to set up and conduct experiments and ability to analyze and interpretation of experimental results. | 1 |
| **6** | Ability to work effectively in inner or multi-disciplinary teams; proficiency of interdependence. | 3 |
| **7** | Ability to communicate in written and oral forms in Turkish/English; proficiency at least one foreign language. | 3 |
| **8** | Awareness of life-long learning; ability to reach information; follow developments in science and technology and continuous self-improvement. | 4 |
| **9** | Understanding of professional and ethical issues and taking responsibility  | 5 |
| **10** | Awareness of project, risk and change management; awareness of entrepreneurship, innovativeness and sustainable development. | 5 |
| **11** | Knowledge of actual problems and effects of engineering applications on health, environment and security in global and social scale; an awareness of juridical results of engineering solutions. | 5 |

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| **LECTUTER(S)** |
| **Prepared by** | Dr. Öğr. Üyesi Çisil TİMURALP |  |  |  |
| **Signature(s)** |  |  |  |  |

**Date:**06.06.2024