**ESOGU MECHANICAL ENGINEERING DEPARTMENT**

**COURSE INFORMATION FORM**

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| **Course Name** | **Course Code** |
| Technical English | 151813561 |

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| **Semester** | **Number of Course Hours per Week** | **ECTS** |
| **Theory** | **Practice** |
| 3 | 3 |  | 3 |

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| **Course Category (Credit)** |
| **Basic Sciences** | **Engineering Sciences** | **Design** | **General Education** | **Social** |
|  |  |  | 3 |  |

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

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| **Prerequisite(s) if any** |  |
| **Objectives of the Course** | The aim of this course is to provide mechanical engineering students with technical English language skills, to learn engineering terminology, and to effectively use this terminology in both written and oral communication. |
| **Short Course Content** | The course includes basic engineering terminology, technical report writing, reading engineering drawings and diagrams, analyzing technical articles, and developing presentation skills in the field of engineering. |

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| **Learning Outcomes of the Course** | **Contributed PO(s)**  | **Teaching Methods \*** | **Measuring Methods \*\*** |
| **1** | Understanding and using technical English terminology. | 1, 2, 3, 7 | A, B, C | 1 |
| **2** | Reading and analyzing technical reports and articles. | 1, 2, 3, 7 | A, B, C | 2 |
| **3** | Interpreting engineering drawings and diagrams. | 1, 2, 3, 7 | A, B, C | 3 |
| **4** | Making effective written and oral presentations on technical subjects. | 1, 2, 3, 7 | A, B, C | 4 |
| **5** | Developing English language structures and vocabulary used in professional communication. | 1, 2, 3, 7 | A, B, C | 5 |
| **6** |  |  |  |  |
| **7** |  |  |  |  |
| **8** |  |  |  |  |

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| **Main Textbook** | Glendinning E. H. & Glendinning N. (2008). Oxford English for Electrical and Mechanical Engineering. Oxford University Press. |
| **Supporting References** |  Dungworth N. & Goodale M. (1996). Professional English in Use: Engineering. Cambridge University Press. Strutt P. (2003). English for International Engineering. Longman. Chilvers B. & Blakey S. (2011). Technical English 4. Pearson Longman. |
| **Necessary Course Material** |  |

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| **Course Schedule** |
| **1** | Introduction and Overview |
| **2** | Basic Technical Terms |
| **3** | Technical Report Writing |
| **4** | Reading Engineering Drawings and Diagrams |
| **5** | Technical Articles |
| **6** | Technical Presentations |
| **7** | Technical Projects |
| **8** | Mid-Term Exam |
| **9** | Business Letters and Emails |
| **10** | Technical Documentation |
| **11** | Group Work |
| **12** | Analyzing Technical Terms and Abbreviations |
| **13** | Reviewing Technical English Sources |
| **14** | Case Studies |
| **15** | Project Presentations |
| **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 | 3 | 42 |
| Classroom Studying Time (review reinforcing prestudy….) | 14 | 1 | 14 |
| Homework |  |  |  |
| Quiz Exam | 2 | 0,5 | 1 |
| Studying for Quiz Exam | 2 | 2 | 4 |
| Oral exam |  |  |  |
| Studying for Oral Exam |  |  |  |
| Report (Preparation and presentation time included) |  |  |  |
| Project (Preparation and presentation time included) | 1 | 10 | 10 |
| Presentation (Preparation time included) |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Mid-Term Exam | 1 | 1 | 1 |
| Studying for Mid-Term Exam | 1 | 10 | 10 |
| Final Exam | 1 | 20 | 20 |
| Studying for Final Exam |  |  |  |
|  | **Total workload** | **102** |
|  | **Total workload / 30** | **3,4** |
|  | **Course ECTS Credit** | **3** |

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| **Evaluation** |
| **Activity Type** | **%** |
| Mid-term | 30 |
| Quiz | 10 |
| Presentation | 10 |
| Bir öğe seçin. |  |
| Bir öğe seçin. |  |
| **Final Exam** | 40 |
| **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** | Adequate knowledge in Mathematics, Science, and Mechanical Engineering subjects; ability to use theoretical and applied knowledge in these areas in complex engineering problems. | 2 |
| **2** | Ability to identify, formulate, and solve complex engineering problems; ability to select and apply proper analysis and modeling methods for this purpose. | 2 |
| **3** | Ability to design a complex system, process, device, or product under realistic constraints and conditions, in such a way as to meet the desired result; ability to apply modern design methods for this purpose. | 2 |
| **4** | Ability to develop, select, and use modern techniques and tools needed for engineering practice; ability to employ information technologies effectively. | 1 |
| **5** | Ability to design and conduct experiments, gather data, analyze and interpret results for investigating engineering problems. | 1 |
| **6** | Ability to work efficiently in intra-disciplinary and multi-disciplinary teams; ability to work individually. | 3 |
| **7** | Ability to communicate effectively in Turkish, both orally and in writing; knowledge of at least one foreign language. | 5 |
| **8** | Recognition of the need for lifelong learning; ability to access information, follow developments in science and technology, and constantly renew oneself. | 4 |
| **9** | Consciousness of professional and ethical responsibility. | 3 |
| **10** | Knowledge about business life practices such as project management, risk management, and change management; awareness of entrepreneurship, innovation, and sustainable development. | 5 |
| **11** | Knowledge about the effects of engineering practices on health, environment, and safety in universal and social dimensions and the legal consequences of engineering solutions. | 4 |

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| **LECTUTER(S)** |
| **Prepared by** | Dr.Öğr. Üyesi G. Mehmet AY |  |  |  |
| **Signature(s)** |  |  |  |  |

**Date:**06.06.2024