



COURSE INFORMATION FORM

| Course Name         | Course Code |
|---------------------|-------------|
| TECHNICAL ENGLISH I | 151413564   |

| Semester | Number of Course Hours per Week |          | ECTS |
|----------|---------------------------------|----------|------|
|          | Theory                          | Practice |      |
| 3        | 2                               | 0        | 2    |

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

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

|                                 |   |
|---------------------------------|---|
| <b>Prerequisite(s) if any</b>   |   |
| <b>Objectives of the Course</b> | The purpose of the course is to enhance the foreign language skills of students who are starting to build their professional and technical knowledge during their engineering education. The course aims to improve students' ability to keep up with global developments and communicate effectively by developing both professional and technical terminology as well as general foreign language skills. |
| <b>Short Course Content</b>     | The course includes the study of grammar and vocabulary in texts related to commonly used technical terms in the fields of science/technology foundational to engineering, as well as in civil engineering and its sub-disciplines. It also provides information on application documents and formal and informal correspondence that students can use in their academic and professional careers.          |

| Learning Outcomes of the Course  | Contributed PO(s) | Teaching Methods * | Measuring Methods ** |
|--|-------------------|--------------------|----------------------|
| 1 Develops vocabulary related to their field and general English                               | 7, 8              | 1, 5, 11, 15       | A, D, K              |
| 2 Analyzes English grammar rules in texts  | 7, 8              | 1, 5, 11, 15       | A, D, K              |
| 3 Improves skills in English reading, listening, and writing                                   | 7, 8              | 1, 5, 11, 15       | A, D, K              |
| 4 Enhances writing skills for both official and unofficial correspondence in English           | 7, 8              | 1, 5, 11, 15       | A, D, K              |
| 5 The course provides an understanding of the development and use of simple web-based AI tools | 1, 4, 7, 8        | 1, 5, 11, 15       | A, D, K              |
| 6  |                   |                    |                      |

\*Teaching Methods 1:Expression, 2:Discussion, 3:Experiment, 4:Simulation, 5:Question-Answer, 6:Tutorial, 7:Observation, 8:Case Study, 9:Technical Visit, 10:Trouble/Problem Solving, 11:Individual Work, 12:Team/Group Work, 13:Brain Storm, 14:Project Design / Management, 15:Report Preparation and/or Presentation

\*\*Measuring Methods A:Exam, B:Quiz, C:Oral Exam, D:Homework, E:Report, F:Article Examination, G:Presentation, I:Experimental Skill, J:Project Observation, K:Class Attendance; L:Jury Exam

|                                  |   |
|----------------------------------|---|
| <b>Main Textbook</b>             | Course Notes  |
| <b>Supporting References</b>     | Basic Civil Engineering, M S Palanichamy, Tata McGraw-Hill, 2011<br>Basic Civil and Environmental Engineering, C.P. Kaushik, S.S. Bhavikatti, Anubha Kaushik<br>Web-based resources for creating official correspondence, sending emails, resumes, cover letters, petitions, etc. |
| <b>Necessary Course Material</b> | Laptop or desktop computer, data show (data projection devices), fixed or movable white screen, blackboard.   |

| <b>Course Schedule</b> |  |
|------------------------|--|
| <b>1</b>               | General engineering concepts                                   |
| <b>2</b>               | General engineering concepts                                   |
| <b>3</b>               | A brief history of mathematics                                 |
| <b>4</b>               | Information on the history of technology                       |
| <b>5</b>               | Computer technologies in engineering                           |
| <b>6</b>               | Usage areas of various web-based artificial intelligence tools |
| <b>7</b>               | Introduction to civil engineering                              |
| <b>8</b>               | Mid-Term Exam  |
| <b>9</b>               | Sub-disciplines of civil engineering                           |
| <b>10</b>              | Civil engineering terms  |
| <b>11</b>              | Civil engineering terms  |
| <b>12</b>              | Civil engineering terms  |
| <b>13</b>              | Civil engineering terms  |
| <b>14</b>              | Writing an email   |
| <b>15</b>              | Writing a petition   |
| <b>16,17</b>           | Final Exam   |

| <b>Calculation of Course Workload</b>                       |               |                    |                              |
|---|---------------|--------------------|------------------------------|
| <b>Activities</b>   | <b>Number</b> | <b>Time (Hour)</b> | <b>Total Workload (Hour)</b> |
| Course Time (number of course hours per week)               | 14            | 2                  | 28                           |
| Classroom Studying Time (review, reinforcing, prestudy,...) | 14            | 1                  | 14                           |
| Homework  | 2             | 4                  | 8                            |
| 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             | 4                  | 4                            |
| Final Exam  | 1             | 1                  | 1                            |
| Studying for Final Exam                                     | 1             | 4                  | 4                            |
| <b>Total workload</b>                                       |               |                    | <b>60</b>                    |
| <b>Total workload / 30</b>                                  |               |                    | <b>2</b>                     |
| <b>Course ECTS Credit</b>                                   |               |                    | <b>2</b>                     |

| Evaluation           |          |
|----------------------|----------|
| <b>Activity Type</b> | <b>%</b> |
| Mid-term             | 30       |
| Homework             | 30       |
|                      |          |
| Bir öge seçin.       |          |
| Bir öge seçin.       |          |
| <b>Final Exam</b>    | 40       |
| <b>Total</b>         | 100      |

| 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   | Strong background in mathematics, science, and fundamental engineering principles; ability to apply theoretical and practical knowledge from these fields to model and solve engineering problems  | 2            |
| 2   | Expertise in identifying, defining, and formulating complex engineering problems in civil engineering and related fields. Ability to select and apply appropriate analysis and modeling methods to solve these problems                        |              |
| 3   | Ability to design complex systems, devices, or products under realistic constraints and conditions. Proficiency in using modern design methods to meet specific objectives   |              |
| 4   | Competence in developing, selecting, and using modern techniques and tools for civil engineering applications. Effective utilization of information technologies to support engineering tasks  | 4            |
| 5   | Expertise in designing experiments, conducting tests, collecting data, analyzing results, and interpreting findings for civil engineering problem investigations   |              |
| 6   | Ability to work effectively in both intradisciplinary and interdisciplinary teams  |              |
| 7   | Effective Turkish oral and written communication skills and proficiency in using and developing foreign language skills  | 5            |
| 8   | Commitment to lifelong learning. Ability to access information, stay up-to-date with advances in science and technology, and continuously self-improve   | 4            |
| 9   | Strong sense of professional and ethical responsibility  |              |
| 10  | Knowledge of project management, risk management, and change management practices; awareness of entrepreneurship, innovation, and sustainable development principles   |              |
| 11  | Understanding of the global and societal impacts of engineering applications on health, the environment, and safety; awareness of national and international legal regulations, standards, and the legal implications of engineering solutions |              |
| 12  |  |              |

| LECTURER(S)         |                             |                          |  |
|---------------------|-----------------------------|--------------------------|--|
| <b>Prepared by</b>  | Asst. Prof. Dr. Çağdaş KARA | Dr. Kadir Berkhan AKALIN |  |
| <b>Signature(s)</b> |                             |                          |  |

**Date:** 23.07.2024