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|  | **ÇANKAYA UNIVERSITY**  **Engineering** **Course Definition Form** |

This form should be used for either an elective or a compulsory course being proposed and curricula development processes for an undergraduate curriculum at Çankaya University, Faculty of Engineering. Please fill in the form completely and submit the printed copy containing the approval of the Department Chair to the Dean's Office, and mail its electronic copy. Upon the receipt of *both copies*, the printed copy will be forwarded to the Faculty Academic Board for approval. Incomplete forms will be returned to the Department. The approved form is finally sent to the President’s office for approval by the Senate.

**Part I. Basic Course Information**

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| **Department Name** | Mechanical Engineering | | | | **Dept. Numeric Code** | | 15 |
| **Course Code** | **ME 200** | **Number of Weekly Lecture Hours** | **0** | **Number of Weekly Lab/Tutorial Hours** | **0** | **Number of Credit Hours** | **0** |
| **Course Web Site** | http://me200.cankaya.edu.tr | | | | **ECTS Credit** | | 5.00 |

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| **Course Name**  *This information will appear in the printed catalogs and on the web online catalog.* | |
| English Name | Summer Training I |
| Turkish Name | Yaz Stajı I |

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| **Course Description**  *Provide a brief overview of what is covered during the semester. This information will appear in the printed catalogs and on the web online catalog.*  *Maximum 60 words.* |
| In this course, the students are required to spend a training period of 20 days in a firm acting in the manufacturing industry. During the training, students will have the opportunity of observing manufacturing processes carried out and the relation between the manufacturing processes and the management functions. |

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| **Prerequisites**  (if any)  *Give course codes and check all that are applicable.* | 1st  **ME 210** | 2nd | | | 3rd | | 4th |
|  |  | |  | |  | |  |
|  | Consent of the Instructor | | | Senior Standing | Give others, if any. | | |
| **Co-requisites**  (if any) | 1st | 2nd | | | 3rd | 4th | |
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| **Course Type**  *Check all that are applicable* | Must course for dept.  Must course for other dept.(s)  Elective course for dept.  Elective course for other dept.(s) | | | | | | |

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| **Course Classification**  *Give the appropriate percentages for each category.* | | | | | |
| Category | Mathematics and Natural Sciences | Engineering Sciences | Engineering Design | General Education |  |
| Percentage | 10.00 | 20.00 | 30.00 | 30.00 |  |

**Part II. Detailed Course Information**

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| **Course Objectives**  *Explain the aims of the course. Maximum 100 words.* |
| The objective of the first summer training is to allow students to observe manufacturing processes in a firm. The studenst will follow all the steps from design to manufacturing for some specific parts. |

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| **Learning Outcomes**  *Explain the learning outcomes of the course. Maximum 10 items.* |
| 1. Students will be able to experience discrete manufacturing processes used in the industry 2. Students will be able to learn the importance of engineering drawing in manufacturing 3. Students will be able to do cost analysis for simple parts and to get acquainted with a typical organizational structure for a discrete manufacturing company  4. Students will be able to write reports |

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| **Textbook**(s)  *List the textbook(s), if any, and other related main course materials.* | | | | |
| Author(s) | Title | Publisher | Publication Year | ISBN |
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| **Reference Book**s  *List the reference books as supplementary materials, if any.* | | | | |
| Author(s) | Title | Publisher | Publication Year | ISBN |
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| **Teaching Policy**  *Explain how you will organize the course (lectures, laboratories, tutorials, studio work, seminars, etc.)* |
| Each student should perform his/her summer training individually according to the rules and instructions announced by the department. Upon completing the training a summer training report is required. This report must include observations. |

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| **Laboratory/Studio Work**  *Give the number of laboratory/studio hours required per week, if any, to do supervised laboratory/studio work, and list the names of the laboratories/studios in which these sessions will be conducted.* |
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| **Computer Usage**  *Briefly describe the computer usage and the hardware/software requirements in the course.* |
| Mainly MS Office tools. |

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| **Course Outline**  *List the topics covered within each week.* | |
| Week | Topic(s) |
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| **Grading Policy**  *List the assessment tools and their percentages that may give an idea about their relative importance to the end-of-semester grade.* | | | | | | | | |
| Assessment Tool | Quantity | Percentage | Assessment Tool | Quantity | Percentage | Assessment Tool | Quantity | Percentage |
| Field Study | 1 | 100 |  |  |  |  |  |  |

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| **ECTS Workload**  *List all the activities considered under the ECTS.* | | | |
| Activity | Quantity | Duration  (hours) | Total Workload  (hours) |
| Attending Lectures (*weekly basis*) | 20 | 6.00 | 120.00 |
| Attending Labs/Recitations (*weekly basis*) |  |  |  |
| Preparation beforehand and finalizing of notes (*weekly basis*) |  |  |  |
| Collection and selection of relevant material (*once*) |  |  |  |
| Self study of relevant material (*weekly basis*) |  |  |  |
| Homework assignments |  |  |  |
| Preparation for Quizzes |  |  |  |
| Preparation for Midterm Exams (*including the duration of the exams*) |  |  |  |
| Preparation of Term Paper/Case Study Report (*including oral presentation*) |  |  |  |
| Preparation of Term Project/Field Study Report (*including oral presentation*) | 1 | 10.00 | 10.00 |
| Preparation for Final Exam (*including the duration of the exam*) |  |  |  |
| TOTAL WORKLOAD **/** 25 | | | 130.00/25 |
| **ECTS Credit** | | | **5** |

*Total Workloads are calculated automatically by formulas. To update all the formulas in the document first press CTRL+A and then press F9.*

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| **Program Qualifications vs. Learning Outcomes**  *Consider the below program qualifications determined in terms of learning outcomes of all the courses in the curriculum and capabilities. Look at the learning outcomes of this course given above. Relate these two using the Likert Scale by marking with X in one of the five choices at the right..* | | | | | | |
| **No** | **Program Qualifications** | **Contribution** | | | | |
| **0** | **1** | **2** | **3** | **4** |
| 1 | Adequate knowledge in mathematics, science and engineering subjects pertaining to engineering; ability to use theoretical and applied information in these areas to model and solve complex engineering problems. |  |  | **X** |  |  |
| 2 | Ability to identify and define complex engineering problems; ability to select and apply proper analysis tools and modeling techniques for formulating and solving such problems. |  | **X** |  |  |  |
| 3 | Ability to design a complex system, a process or product under realistic constraints and conditions in such a way as to meet the desired requirements; ability to apply modern design methods for this purpose. |  |  | **X** |  |  |
| 4 | Ability to devise, select and use modern techniques to analyze and solve complex problems for engineering practice; ability to use information technologies effectively. | **X** |  |  |  |  |
| 5 | Ability to design and conduct experiments, gather data, analyze and interpret results for investigating engineering problems. | **X** |  |  |  |  |
| 6 | Ability to work efficiently in intra-disciplinary and multidisciplinary teams by collaborating effectively; ability to work individually. |  | **X** |  |  |  |
| 7 | Ability to communicate effectively in Turkish and in English both orally and in writing; knowledge of at least one foreign language; ability to write report, to read report, to prepare design and production reports, to give presentation, to give instruction and receive instruction, effectively. |  |  |  | **X** |  |
| 8 | Awareness of life-long learning; ability to access information, to follow developments in science and technology, and to keep continuous self-improvement. |  | **X** |  |  |  |
| 9 | Awareness of professional and ethical responsibility; knowledge of standards used in engineering applications. |  |  |  | **X** |  |
| 10 | Knowledge in project management, risk management and change management; awareness of entrepreneurship and innovation; knowledge in sustainable development. |  | **X** |  |  |  |
| 11 | Knowledge in global and social effects of engineering practices on health, environment, safety and contemporary issues; awareness of the legal consequences of engineering solutions. |  |  |  | **X** |  |

Contribution Scale to a Qualification: **0**-None, **1**-Little, **2**-Medium, **3**-Considerable, **4**-Largest

**Part III New Course Proposal Information**

*State only if it is a new course*

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| Is the new course **replacing** a former course in the curriculum**?** | | | | Yes | No | Former Course’s Code | | | | Former Course’s Name | |
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| Is there any similar course which has content **overlap** with other courses offered by the university**?** | | | | Yes | No | Most Similar Course’s Code | | | | Most Similar Course’s Name | |
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| **Frequency** of Offerings  *Check all semesters that the course is planned to be offered.* | | | | Fall  Spring  Summer | | | | | | | |
| **First** Offering | Academic Year | | 2019 | | | | Semester | | Fall  Spring | | |
| Maximum **Class Size** Proposed | |  | Student **Quota** for Other Departments | | | |  | Approximate **Number of Students** Expected to Take the Course | | |  |
| **Justification for the proposal**  *Maximum 80 words* | | | | | | | | | | | |
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**Part IV Approval**

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| **Proposed by** | Faculty Member  *Give the Academic Title first.* | Signature | Date |
| Dr. Öğr. Üyesi Samet AKAR |  | 29/04/2022 |
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| Departmental Board Meeting Date |  | Meeting Number |  | Decision Number |  |
| Department Chair | Prof. Dr. Haşmet TÜRKOĞLU | Signature |  | Date |  |

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| Faculty Academic Board Meeting Date |  | Meeting Number |  | Decision Number |  |
| Dean | Prof. Dr. Sıtkı Kemal İDER | Signature |  | Date |  |

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| Senate  Meeting Date |  | Meeting Number |  | Decision Number |  |

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