

**School of Fine Arts Design and Architecture / Industrial Design**

**2023 - 2024 Academic Year**

**DIGITAL MODELLING for MANUFACTURING**

**Syllabus**

| Course Description  |  |                                |                           |        |      |
|---|--|--------------------------------|---------------------------|--------|------|
| Name  | Code   | Semester                       | T+A Hour                  | Credit | ECTS |
| DIGITAL MODELLING for MANUFACTURING   | EUT3215561   | Spring Semester                | 2+2                       | 3      | 3    |
| <b>Prerequisites Courses</b>  |  |                                |                           |        |      |
| <b>Recommended Elective Courses</b>   | Digital Design Tools III   |                                |                           |        |      |
| <b>Language of Instruction</b>  | Turkish  |                                |                           |        |      |
| <b>Course Level</b>   | First Cycle (Bachelor's Degree)  |                                |                           |        |      |
| <b>Course Type</b>  | Elective   |                                |                           |        |      |
| <b>Course Coordinator</b>   | Assist.Prof. Seher Oya AKMAN   |                                |                           |        |      |
| <b>Name of Lecturer(s)</b>  | Lect. Enes CİNER   |                                |                           |        |      |
| <b>Assistant(s)</b>   |  |                                |                           |        |      |
| <b>Aim</b>  | The aim of this course is to enable students to use advanced solid modeling techniques for production. For this purpose, the Solidworks program is used. In this course, students learn the techniques of designing and modeling complex parts in a ready-to-produce manner. |                                |                           |        |      |
| <b>Course Content</b>   | This course contains; .....  |                                |                           |        |      |
| <b>Course Learning Outcomes</b>   |  | <b>Teaching Methods</b>        | <b>Assessment Methods</b> |        |      |
| To be able to prepare ready-made technical drawings of a product by using 3D solid modeling programs. |  | 2, 6, 9                        |                           |        |      |
| To be able to use assembly techniques in 3D solid modelling programs.                                 |  | 2, 6, 9                        |                           |        |      |
| To be able to make advanced surface modeling in 3D solid modelling programs.                          |  | 2, 6, 9                        |                           |        |      |
| <b>Teaching Methods</b>   | 2: Project Based Learning Model, 6: Experiential Learning, 9: Lecture Method   |                                |                           |        |      |
| <b>Assessment Methods</b>   |  |                                |                           |        |      |
| <b>Lecture Schedule</b>   |  |                                |                           |        |      |
| <b>Sequence</b>   | <b>Topics</b>  | <b>Preliminary Preparation</b> |                           |        |      |
| 1   |  |                                |                           |        |      |
| 2   |  |                                |                           |        |      |
| 3   |  |                                |                           |        |      |
| 4   |  |                                |                           |        |      |
| 5   |  |                                |                           |        |      |
| 6   |  |                                |                           |        |      |
| 7   |  |                                |                           |        |      |
| 8   |  |                                |                           |        |      |
| 9   |  |                                |                           |        |      |
| 10  |  |                                |                           |        |      |
| 11  |  |                                |                           |        |      |
| 12  |  |                                |                           |        |      |
| 13  |  |                                |                           |        |      |
| 14  |  |                                |                           |        |      |
| <b>Evaluation Methods</b>   |  | <b>Weight(%)</b>               |                           |        |      |
| Midterm Exam  |  | 50                             |                           |        |      |
| General Exam  |  | 50                             |                           |        |      |

| Resources |
|-----------|
|           |