



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

|  |   |  |            |   |   |                                  |   |            |   |
|--|---|--|------------|---|---|----------------------------------|---|------------|---|
| Course Title                                     |   | Computer Assisted Design   |            |   |   |                                  |   |            |   |
| Course Code                                      |   | AET106   |            | Course Level  |   | Short Cycle (Associate's Degree) |   |            |   |
| ECTS Credit                                      | 4 | Workload   | 99 (Hours) | Theory  | 1 | Practice                         | 1 | Laboratory | 0 |
| Objectives of the Course                         |   | With this course it is aimed to equip students with competencies of computer assisted two dimensional and three dimensional drawings.  |            |   |   |                                  |   |            |   |
| Course Content                                   |   | Entering Initial drawing settings, drawing commands/coordinates, geometric shapes, entering editing commands, drawing installment parts, changing layer features, changing item features, calibrating drawings, adding writings to the drawings, changing user coordination system, adjusting screen parts, making isometric drawing, modeling surface, concrete modeling. |            |   |   |                                  |   |            |   |
| Work Placement                                   |   | N/A  |            |   |   |                                  |   |            |   |
| Planned Learning Activities and Teaching Methods |   |  |            | Explanation (Presentation), Demonstration, Individual Study |   |                                  |   |            |   |
| Name of Lecturer(s)                              |   | Lec. Ahmet Cumhur ÖZTÜRK, Lec. Erman AYDIN   |            |   |   |                                  |   |            |   |

### Assessment Methods and Criteria

| Method              | Quantity | Percentage (%) |
|---------------------|----------|----------------|
| Midterm Examination | 1        | 40             |
| Final Examination   | 1        | 70             |

### Recommended or Required Reading

|   |   |
|---|---|
| 1 | Fundamentals of Computer Aided Design and Applications-Sait M. Say, Mustafa Şehri |
|---|---|

| Week | Weekly Detailed Course Contents |                                   |
|------|---------------------------------|-----------------------------------|
| 1    | Theoretical                     | Entering Initial drawing settings |
| 2    | Theoretical                     | drawing commands/coordinates      |
| 3    | Theoretical                     | geometric shapes                  |
| 4    | Theoretical                     | entering editing commands         |
| 5    | Theoretical                     | drawing installment parts         |
| 6    | Theoretical                     | changing layer features           |
| 7    | Theoretical                     | changing item features            |
| 8    | Theoretical                     | calibrating drawings              |
| 9    | Theoretical                     | adding writings to the drawings   |
| 10   | Theoretical                     | changing user coordination system |
| 11   | Theoretical                     | adjusting screen parts            |
| 12   | Theoretical                     | making isometric drawing          |
| 13   | Theoretical                     | modeling surface                  |
| 14   | Theoretical                     | concrete modeling.                |

### Workload Calculation

| Activity                                | Quantity | Preparation | Duration | Total Workload |
|---|----------|-------------|----------|----------------|
| Lecture - Theory                        | 14       | 1           | 1        | 28             |
| Lecture - Practice                      | 14       | 0           | 1        | 14             |
| Assignment                              | 7        | 3           | 0        | 21             |
| Term Project                            | 1        | 14          | 0        | 14             |
| Midterm Examination                     | 1        | 10          | 1        | 11             |
| Final Examination                       | 1        | 10          | 1        | 11             |
| Total Workload (Hours)                  |          |             |          | 99             |
| [Total Workload (Hours) / 25*] = ECTS   |          |             |          | 4              |
| *25 hour workload is accepted as 1 ECTS |          |             |          |                |

### Learning Outcomes

|   |                                  |
|---|----------------------------------|
| 1 | Making computer assisted drawing |
|---|----------------------------------|



|   |   |
|---|---|
| 2 | Editing drawing                               |
| 3 | Editing layer and item features               |
| 4 | Adjusting coordination system and screen view |
| 5 | Making three dimensional drawing              |

**Programme Outcomes (Alternative Energy Sources Technology)**

|    |  |
|----|--|
| 1  | Carry out installing work  |
| 2  | Do mechanical drawing  |
| 3  | Do pipe welding  |
| 4  | Do basic electricity works   |
| 5  | Do Computer assisted design  |
| 6  | Install solar energy hot water preparation system.   |
| 7  | Do measurement and calculations practices.   |
| 8  | Do basic practices of geothermal energy.   |
| 9  | Install control and automation system.   |
| 10 | Install domestic water heating system with solar energy.   |
| 11 | Generate electricity with solar energy   |
| 12 | Generate electricity with wind power   |
| 13 | Do geothermal energy practices   |
| 14 | Install domestic cooling system  |
| 15 | Do heating pump practices  |
| 16 | Manage a business  |
| 17 | SET UP A WORKPLACE/ BUSINESS (pre-requisite)   |
| 18 | OBEY VOCATIONAL ETHICAL VALUES   |
| 19 | RESEARCH AND EVALUATION/OBSERVATION  |
| 20 | SELFIMPROVEMENT WITH USING INFORMATION FACILITIES  |
| 21 | Knows the effects of all energy sources on the environment.  |
| 22 | Can communicate in a foreign language  |
| 23 | Ability to use the methods and techniques of career planning and discussing the effects of character traits on career preferences. |
| 24 | Ability to plan a career in their own profession.  |
| 25 | To produce solutions by using the laws of physics in the use or design of tools-machines or devices related to the profession.     |
| 26 | To provide them with knowledge about substance use and addiction problem and prevention methods.                                   |

**Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High**

|     | L1 | L2 | L3 | L4 | L5 |
|-----|----|----|----|----|----|
| P5  | 3  | 4  | 4  | 5  | 5  |
| P20 | 4  | 4  | 5  | 5  | 5  |

