

# TOROS ÜNİVERSİTESİ

Faculty Of Fine Arts, Design And Architecture  
Architecture

## Course Information

| TECHNICAL DRAWING |          |             |          |                 |             |
|-------------------|----------|-------------|----------|-----------------|-------------|
| Code              | Semester | Theoretical | Practice | National Credit | ECTS Credit |
|                   |          | Hour / Week |          |                 |             |
| ARC135            | Fall     | 4           | 4        | 5               | 6           |

|                                             |                                                                                                                              |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| <b>Prerequisites and co-requisites</b>      |                                                                                                                              |
| <b>Language of instruction</b>              | Turkish                                                                                                                      |
| <b>Type</b>                                 | Required                                                                                                                     |
| <b>Level of Course</b>                      | Bachelor's                                                                                                                   |
| <b>Lecturer</b>                             | Prof. Erkin ERTEN, Inst. Yeliz ÇERMİKLİ BULUKLU                                                                              |
| <b>Mode of Delivery</b>                     | Face to Face                                                                                                                 |
| <b>Suggested Subject</b>                    | None                                                                                                                         |
| <b>Professional practise ( internship )</b> | None                                                                                                                         |
| <b>Objectives of the Course</b>             | Giving education to students about orthographic, isometric, axonometric, dimetric drawing and architectural drawing details. |
| <b>Contents of the Course</b>               | Orthographic drawing techniques, 1/50 scale drawing techniques according to the plan section and elevation drawings.         |

## Learning Outcomes of Course

| # | Learning Outcomes                                                                                                                                               |
|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Be able to identify the tools and equipment that are used for technical drawing, be able to use the drawing tools and equipment in coordination with each other |
| 2 | Be able to identify basic forms                                                                                                                                 |
| 3 | Be able to draw plan, section and views of objets and read drawings                                                                                             |
| 4 | Be able to gain ability to think in three dimensions, and describe three dimensions on two dimensions                                                           |
| 5 | Be able to interrogate the concept of perspective, can draw single and double escape perspective                                                                |
| 6 | Be able to describe the scale concept and draw in different detail at different scales                                                                          |

## Course Syllabus

| # | Subjects                                                                                                          | Teaching Methods and Technics |
|---|-------------------------------------------------------------------------------------------------------------------|-------------------------------|
| 1 | Information about course materials, learning outcomes, preparing the course and writing course                    | Drawing in the class          |
| 2 | Drawing different kinds of horizontal and vertical lines with T ruler and drawing cycles.                         | Drawing in the class          |
| 3 | Orthographic drawing technique main examples and workshop with students (plan, section, elevation).               | Drawing in the class          |
| 4 | Orthographic drawing technique intermediate level examples and workshop with students (plan, section, elevation). | Drawing in the class          |
| 5 | Orthographic drawing technique high level examples and workshop with students (plan, section, elevation).         | Drawing in the class          |
| 6 | 1/50 scale plan and section drawing techniques main examples and workshop with students.                          | Drawing in the class          |
| 7 | 1/50 scale plan and section drawing techniques intermediate examples and workshop with students.                  | Drawing in the class          |
| 8 | Midterm                                                                                                           | Drawing in the class          |

|    |                                                                        |                      |
|----|------------------------------------------------------------------------|----------------------|
| 9  | Drawing two-storey housing plan suitable for 1/50 scale technique      | Drawing in the class |
| 10 | Drawing two-storey housing section suitable for 1/50 scale technique   | Drawing in the class |
| 11 | Drawing two-storey housing elevation suitable for 1/50 scale technique | Drawing in the class |
| 12 | Drawing two-storey housing plan suitable for 1/50 scale technique      | Drawing in the class |
| 13 | Drawing two-storey housing section suitable for 1/50 scale technique   | Drawing in the class |
| 14 | Drawing two-storey housing elevation suitable for 1/50 scale technique | Drawing in the class |
| 15 | General information about the site plan.                               | Drawing in the class |
| 16 | Final Exam                                                             | Drawing in the class |

## Course Syllabus

| # | Material / Resources                                                 | Information About Resources | Reference / Recommended Resources |
|---|----------------------------------------------------------------------|-----------------------------|-----------------------------------|
| 1 | Mimarlıkta Teknik Resim, Orhan ŞAHİNLER, YEM yayınları               |                             |                                   |
| 2 | Düşey Sirkülasyon Araçları Merdivenler, Abdullah SARI, YEM yayınları |                             |                                   |
| 3 | Architectural Working Drawings, Ralph W. LIEBING                     |                             |                                   |
| 4 | Technical Drawing Materials                                          |                             |                                   |
| 5 | web                                                                  |                             |                                   |
| 6 | Architecture, Form ve Geometry, Esen Onat, Efil Yayınevi             |                             |                                   |

## Method of Assessment

| # | Weight | Work Type     | Work Title    |
|---|--------|---------------|---------------|
| 1 | 40%    | Mid-Term Exam | Mid-Term Exam |
| 2 | 60%    | Final Exam    | Final Exam    |

## Relationship between Learning Outcomes of Course and Program Outcomes

| # | Learning Outcomes                                                                                                                                               | Program Outcomes | Method of Assessment |
|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------------------|
| 1 | Be able to identify the tools and equipment that are used for technical drawing, be able to use the drawing tools and equipment in coordination with each other | 4                | 1,2,3                |
| 2 | Be able to identify basic forms                                                                                                                                 | 4                | 1,2,3                |
| 3 | Be able to draw plan, section and views of objects and read drawings                                                                                            | 4                | 1,2,3                |
| 4 | Be able to gain ability to think in three dimensions, and describe three dimensions on two dimensions                                                           | 4                | 1,2,3                |
| 5 | Be able to interrogate the concept of perspective, can draw single and double escape perspective                                                                | 4                | 1,2,3                |
| 6 | Be able to describe the scale concept and draw in different detail at different scales                                                                          | 4                | 1,2,3                |

PS. The numbers, which are shown in the column Method of Assessment, presents the methods shown in the previous table, titled as Method of Assessment.

## Work Load Details

| # | Type of Work                                                  | Quantity | Time (Hour) | Work Load |
|---|---------------------------------------------------------------|----------|-------------|-----------|
| 1 | Course Duration                                               | 14       | 8           | 112       |
| 2 | Course Duration Except Class (Preliminary Study, Enhancement) | 14       | 1           | 14        |
| 3 | Presentation and Seminar Preparation                          | 0        | 0           | 0         |
| 4 | Web Research, Library and Archival Work                       | 0        | 0           | 0         |
| 5 | Document/Information Listing                                  | 0        | 0           | 0         |

|    |                              |    |   |            |
|----|------------------------------|----|---|------------|
| 6  | Workshop                     | 0  | 0 | 0          |
| 7  | Preparation for Midterm Exam | 1  | 5 | 5          |
| 8  | Midterm Exam                 | 1  | 8 | 8          |
| 9  | Quiz                         | 0  | 0 | 0          |
| 10 | Homework                     | 14 | 2 | 28         |
| 11 | Midterm Project              | 0  | 0 | 0          |
| 12 | Midterm Exercise             | 0  | 0 | 0          |
| 13 | Final Project                | 0  | 0 | 0          |
| 14 | Final Exercise               | 0  | 0 | 0          |
| 15 | Preparation for Final Exam   | 1  | 5 | 5          |
| 16 | Final Exam                   | 1  | 8 | 8          |
|    |                              |    |   | <b>180</b> |