

# TOROS ÜNİVERSİTESİ

Faculty Of Fine Arts, Design And Architecture  
Architecture

## Course Information

| CONSTRUCTION II |          |             |          |                 |             |
|-----------------|----------|-------------|----------|-----------------|-------------|
| Code            | Semester | Theoretical | Practice | National Credit | ECTS Credit |
|                 |          | Hour / Week |          |                 |             |
| ARC234          | Spring   | 3           | 0        | 3               | 3           |

|                                             |                                                                                                                                                                                                      |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Prerequisites and co-requisites</b>      | ARC 233 CONSTRUCTION I                                                                                                                                                                               |
| <b>Language of instruction</b>              | Turkish                                                                                                                                                                                              |
| <b>Type</b>                                 | Required                                                                                                                                                                                             |
| <b>Level of Course</b>                      | Bachelor's                                                                                                                                                                                           |
| <b>Lecturer</b>                             | Öğr. Gör. Ayşe İNCE, Öğr. Gör. Meltem AKYÜREK                                                                                                                                                        |
| <b>Mode of Delivery</b>                     | Face to Face                                                                                                                                                                                         |
| <b>Suggested Subject</b>                    |                                                                                                                                                                                                      |
| <b>Professional practise ( internship )</b> | None                                                                                                                                                                                                 |
| <b>Objectives of the Course</b>             | Give basic information that is enough for students create design and application projects by dealing construction elements such as shreddings, vertical circulation equipments and roofs separately. |
| <b>Contents of the Course</b>               | This course gives theoretical and practical information about shreddings (Windows and doors), vertical circulation equipments (stairs, slopes, escalators and elevators) and roofs.                  |

## Learning Outcomes of Course

| # | Learning Outcomes                                                                                                      |
|---|------------------------------------------------------------------------------------------------------------------------|
| 1 | Learning; the buildings floor materials, partitions, walls, ceilings, doors, installations, insulations, glazings      |
| 2 | Learning; the buildings floor coverings, wall finishings and can adapt these designs to their interior design projects |
| 3 | Will be able to understand the regulation concerning the construction.                                                 |
| 4 | To know how to draw details and construction                                                                           |

## Course Syllabus

| #  | Subjects                                                          | Teaching Methods and Technics                      |
|----|-------------------------------------------------------------------|----------------------------------------------------|
| 1  | Doors                                                             | Lecture and discussion                             |
| 2  | Stairs                                                            | Lecture and discussion                             |
| 3  | Turning the steps stairs                                          | Lecture and discussion                             |
| 4  | Slopes, escalators and elevators                                  | Lecture and discussion                             |
| 5  | Roofs and roof types                                              | Lecture and discussion                             |
| 6  | Roof coverings                                                    | Lecture and discussion                             |
| 7  | Draination of roofs, solutions of hipped roofs and their details. | Lecture and discussion                             |
| 8  | Quiz                                                              | Written and drawing quiz                           |
| 9  | Double-return stairs                                              | Lecture and discussion, drawing study and homework |
| 10 | Turning the steps stairs with proportional division method        | Lecture and discussion, drawing study and homework |
| 11 | Turning the steps stairs with Flight Line method                  | Lecture and discussion, drawing study and homework |
| 12 | Drawing of drainiation roofs with plans and sections              | Lecture and discussion, drawing study and homework |

|    |                                                   |                                                    |
|----|---------------------------------------------------|----------------------------------------------------|
| 13 | Drawing plans of roof construction                | Lecture and discussion, drawing study and homework |
| 14 | Drawing sections and details of roof construction | Lecture and discussion, drawing study and homework |
| 15 | Drawing sections and details of roof construction | Lecture and discussion, drawing study and homework |
| 16 | Final Exam                                        | Drawing examination                                |

## Course Syllabus

| #  | Material / Resources                                                                                                                                | Information About Resources | Reference / Recommended Resources |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------|
| 1  | Mimarlıkta Yapı-Yapım, Birsen Yayınevi, 2012, İstanbul (Prof. Dr. Erkin ERTEN)                                                                      |                             |                                   |
| 2  | BİNAN, M. :Doğramalar 1-2,Ahşap Pencere ve Kapılar, İTÜ                                                                                             |                             |                                   |
| 3  | BİNAN, M./SUNGURÖĞLU,İ./DİRİK,D./VENSÜREL,G. :Çatılar, İTÜ                                                                                          |                             |                                   |
| 4  | ILGAZ,T. :Az Eğimli Çatılarda, 'Isı ve Nem Korunumuyla' ilgili Teorik Esaslar, Erken Çatı Hasarları ve Bunların Nedenleri Üzerine Bir İnceleme, KTÜ |                             |                                   |
| 5  | SARI,A. :Düşey Sirkülasyon Araçları-Merdivenler                                                                                                     |                             |                                   |
| 6  | TOYDEMİR,N./ÜNÜGÜR,M. :Kırmaçatılarım Çözümü İçin Özgün Bir Yöntem: Toygür Algoritması                                                              |                             |                                   |
| 7  | ANONİM:Soğuk Çatılar, T.C.Bayındırlık Bakanlığı Yapı İşleri Genel Müdürlüğü                                                                         |                             |                                   |
| 8  | FRICK/KNÖLL/NEUMAN/WEINBRENNER :Baukonstruktionslehre, Teil 1-2                                                                                     |                             |                                   |
| 9  | F.D.K. CHING :The Visual Dictionary of Architecture                                                                                                 |                             |                                   |
| 10 | FOSTER, J.S./HARRINGTON,R. :Structure and Fabric                                                                                                    |                             |                                   |

## Method of Assessment

| # | Weight | Work Type     | Work Title    |
|---|--------|---------------|---------------|
| 1 | 20%    | Mid-Term Exam | Mid-Term Exam |
| 2 | 30%    | Homework      | Homework      |
| 3 | 50%    | Final Exam    | Final Exam    |

## Relationship between Learning Outcomes of Course and Program Outcomes

| # | Learning Outcomes                                                                                                      | Program Outcomes | Method of Assessment |
|---|------------------------------------------------------------------------------------------------------------------------|------------------|----------------------|
| 1 | Learning; the buildings floor materials, partitions, walls, ceilings, doors, installations, insulations, glazings      | 10               | 1,2                  |
| 2 | Learning; the buildings floor coverings, wall finishings and can adapt these designs to their interior design projects | 10               | 1,2                  |
| 3 | Will be able to understand the regulation concerning the construction.                                                 | 12               | 1,2                  |
| 4 | To know how to draw details and construction                                                                           | 10               | 1,2                  |

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       | 3           | 42        |
| 2 | Course Duration Except Class (Preliminary Study, Enhancement) | 14       | 3           | 42        |
| 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 | 0 | 0 | 0         |
| 8  | Midterm Exam                 | 1 | 2 | 2         |
| 9  | Quiz                         | 0 | 0 | 0         |
| 10 | Homework                     | 1 | 2 | 2         |
| 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 | 1 | 1         |
| 16 | Final Exam                   | 1 | 1 | 1         |
|    |                              |   |   | <b>90</b> |