

# **ÇANKAYA UNIVERSITY** Faculty of Architecture

# **Course Definition Form**

This form should be used for either an elective or a compulsory course being proposed and for a curriculum development process for an undergraduate curriculum at Çankaya University, Faculty of Architecture. Please fill in the form completely and submit the print-out carrying the approval of the Department Chair to the Dean's Office and mail its electronic copy to <u>ayseguleksi@cankaya.edu.tr</u>. Upon receipt of *both copies*, the print-out 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

Department Name	ARCHITECTURE				Dep	t. Numeric Code	1	8
Course Code	A R C H 3 5 1	Number of Weekly Lecture Hours	2	Number of Weekly Lab/Tutorial Hours	4	Number of Credit Hours	4	]
Course Web Site	http:// arch351.cankaya.	edu.tr			ECT	0	4	

Course Name This information will appear in the printed catalogs and on the web online catalog.				
English Name	BUILDING CONSTRUCTION			
Turkish Name	YAPI VE KONSTRÜKSİYON			

#### **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.

Covering the aspects of building construction by concentrating on the main elements of buildings. In this respect, architectural background of building systems such as Environmental & Utility Services, Ceiling Systems, Cladding & Wood Veneering, Structural Glazing systems, Curtain Wall Systems are analyzed. Also, terminology regarding various materials and structural systems are covered within the content of this course.

<b>Prerequisites</b> (if any) <i>Give course codes and</i>		2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>
check all that are applicable.	Consent of the Instructor	Senior Standing	Give others, if any.	
<b>Co-requisites</b> (if any)		2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>
Course Type Check all that are applicable	Must course for dept.	Must course for other dept.(s)	x Elective course for dept.	Elective course for other

Course Classification Give the appropriate percentage for each category.							
Category	Mathematics & Natural Sciences	Engineering Sciences	Engineering Design & Technology	Architectural Theory & History	Architectural Design & Planning		
Percentage	10%	20%	50%	5%	15%		

### Part II. Detailed Course Information

Course Objectives Maximum 100 words.					
To: Improve the students ability to understand and solve construction systems and details in buildings					

#### Learning Outcomes

Explain the learning outcomes of the course. Maximum 10 items.

- 1. Solve building construction problems.
- 2. Develop architectural construction proposals.
- 3. Use the theoretical, methodological and applied information in the areas of constructional, and technical topics of architecture

## Textbook(s)

List the textbook(s), if any, and other related main course material.							
Author(s)	Title	Publisher	Publication Year	ISBN			

Reference Books List, if any,other reference books to be used as supplementary material.							
Author(s)	Title	Publisher	Publication Year	ISBN			
Ching, Francis D.K. Adams, Cassandra	Building Construction Illustrated	Van Nostrand Reinhold, New York	1991	0-471-35898-3			
Ching, Francis D.K Winkel,Steven R	Building Codes Illustrated	John Willey &Sons,Inc	2003	0-471-09980-5			

#### **Teaching Policy**

Explain how you will organize the course (lectures, laboratories, tutorials, studio work, seminars, etc.)

2 hours of lecturing and 4 hours of studio work per week. Theoretical knowledge will be given during lecture hours. Construction Drawings on structural and constructional problems of building elements will be made during Studio Work hours

### 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.

4 hours of supervised studio work per week. The studio work requires the use of a convenient design studio.

#### Computer Usage

Briefly describe the computer usage and the hardware/software requirements for the course.

**Course Outline** List the weekly topics to be covered.

Week	Topic(s)
1	Wet Areas : Kitchen Systems
2	Wet Areas : Bath Systems
3	Window Systems Home Work : Research Report on Cladding, Curtain Wall and Structural Glazing Systems
4	Window Systems
5	Door Systems
6	Door Systems
7	Cladding
8	Cladding
9	Curtain Wall Systems
10	Curtain Wall Systems
11	Structural Glazing Systems
12	Structural Glazing Systems (Submission of Research Report Files)
13	Ceiling Systems
14	Ceiling Systems

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
Classwork	14	87%	Preparation for Studio Works	14	3%			
Research Report File	1	10&						

ECTS Workload List all the activities considered under the ECTS.			
Activity	Quantity	Duration (hours)	Total Workload (hours)
Attending Lectures (weekly basis)	14	1,5	21
Attending Studio Works(weekly basis)	14	4	56
Self study of relevant material (weekly basis)	14	1	14
Preparation for Studio Works	14	1	14
	105/25 = 4,2		
	4		

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

Mo     Program Qualification	<u> </u>	Contribution				
	Program Qualifications	0	1	2	3	4
1	Adequate knowledge in fundamental design, history and technical topics of architecture; and ability to use the theoretical, methodological and applied information in these areas to develop architectural design proposals and its applications.				x	
2	Sensibility to the built environments in which we live; ability to identify the needs of these environments and spaces through a critical rationalist standpoint.				х	
3	Under social, physical and economical limitations, and within the framework of aesthetic values and user needs, ability to propose contemporary, creative and aesthetical solutions and ability to apply the proposal.				х	
4	Ability to sustain designer's notion from the beginning of the design process to the finalization of the construction process; ability to devise, select and effectively use the tools, techniques and technologies related to design, drawing, software and construction.					x
5	Ability to access the required information related to the concepts, discussions and developments in the field of architecture; and ability to search and use databases and other information sources effectively.					x
6	Ability to analyze the collected data, to synthesize diverse information and ideas, and to interpret findings; and ability to use them in the process of architectural design.					x
7	Ability to work efficiently in teams; ability to communicate, collaborate, and take responsibility in multi- disciplinary teams.					x
8	Ability to work individually and to take independent initiative.					x
9	Ability to communicate effectively in Turkish, both orally and in writing.				х	
10	Knowledge of a minimum of one foreign language at a fluent level to follow easily the literature in the field of architecture in that language, and to communicate effectively with colleagues in international projects.			x		
11	Ability to present design ideas, analysis, findings, proposals and assessments with proper visual media; and ability to report them when it is necessary.				х	
12	Recognition of the need for life-long learning; ability to follow scientific and technological developments in the field of architecture; and ability to keep continuous self-improvement.					x
13	Consciousness of professional, scientific and ethical responsibilities concerning the field of architecture.			x		
14	Capability to grasp professional life practices such as project and construction management and their applications; and awareness of occupational safety and health, work security and legal consequences concerning the practice of architecture.			x		

Scale for contribution to a qualification: 0-none, 1-little, 2-moderate, 3-considerable, 4-highest

# Part III New Course Proposal Information State only if it is a new course

Is the new course <b>replacing</b> a former course in the curriculum?				No	Former Course's Code Former Course's Name
Is there any similar course which has content <b>overlap</b> with other courses offered by the university?				No x□	Most Similar Course's Code Most Similar Course's Name
<b>Frequency</b> of Offerings Check all semesters in whch the course is to be offered.				all	Spring Summer
First Offering	Academic Year	2 0 1 3 / 2	0 1	4	Semester 🗌 Fall 🗌 Spring
Maximum Class Size Proposed 55 Student Quota for Othe			er Depa	rtments	s Approximate Number of Students Expected to Take the Course
Justification for the Maximum 80 words	e proposal				

This course is necessary to provide students with the advanced knowledge based on construction techniques of building elements in Architecture

## Part IV Approval

Proposed by	Faculty Member Give the Academic Title first.	Signature	Date
	Instructor Selçuk Uysal		

Departmental Board sitting date	Sittng number	Motion number	
Department Chair	Signature	Date	

Faculty Academic Board sitting date		Sitting number	Motion number	
Dean	Prof. Dr. A.Zeynep ONUR	Signature	Date	