ECTS Course Description Form

PART I (Senate Approval)

Offering School	Antalya Bilim University-Faculty of Fine Arts and Architecture					
Offering Department	Architecture					
Program(s) Offered to	Architecture					Area Elective
Course Code	ARC 4452					
Course Name	Historical Construction Techniques					
Language of Instruction	English					
Type of Course	Theory					
Level of Course	Undergraduate					
Hours per Week	Lecture: 3	Laboratory:	Recitation:	Practical:	Studio:	Other:
ECTS Credit	3					
Grading Mode	Letter Grade					
Pre-requisites						
Co-requisites						
Registration Restriction						

Educational Objective	To recognize concepts such as socioeconomic, political, aesthetic, geographic and cultural, as well as the choice of materials, helped to shape buildings throughout the centuries. To understand the evolution of materials and technology in a context of history and architectural styles and periods. To learn appropriate terminology which will help students recognize and understand construction techniques and allows them to be familiar with the complex forms of historical structures. To gain a foundational understanding of the history of construction techniques as they evolved throughout history.
Course Description	This course examines construction systems throughout the time and gives the students the general knowledge about historical construction systems and their evaluation. Each construction material will be examined in the chronological way and it will strengthened with examples around the world. It's expected the students to be familiar with the construction systems of historic buildings.

Learning Outcomes	**LO1**	To use a proper architectural vocabulary and deal with main historical construction systems concepts
	LO2	To get a holistic view on all the aspects such as traditional construction techniques and materials
	LO3	To be able to realize and identify the main characteristics of different construction techniques
	LO4	To self-improvement of the students in terms of research and expression with the assignments and reports

PART II (Faculty Board Approval)

		Program Outcomes	LO1	LO2	LO3	LO4	LO5
Basic Outcomes (University-wide)	**PO1**	**Ability** to communicate effectively and write and present a report in Turkish and English.				X	
	PO2	**Ability** to communicate effectively and write and present a report in Turkish and English.				X	
	PO3	**Recognition** of the need for life-long learning and **ability** to access information , follow developments in science and technology, and continually reinvent oneself.	X	X	X	X	
	PO4	**Knowledge** of project management, risk management, innovation and change management, entrepreneurship, and sustainable development.					
	PO5	**Awareness** of sectors and **ability** to prepare a business plan.					
	PO6	**Understanding** of professional and ethical responsibility and **demonstrating** ethical behavior.					
Faculty Specific Outcomes	**PO7**	Gain the ability of conceptualizing, applying, analyzing, synthesizing and evaluating information effectively (Critical Thinking)	X	X	X	X	
	PO8	Produce innovative ideas and products with creativity (Creativeness).				X	
	PO9	Gain the ability of leadership, entrepreneurship and self-leadership skills (Leadership and Entrepreneurship).					
	PO10	Care about the ethical values and principles; behave in accordance with these in professional and social life (Ethical Behavior).	X				
	PO11	Understand, define and reach the information that they need; use information effectively and share it with others (Information Literacy).	X		X	X	
	PO12	Use information effectively and communication technologies while learning, and can share their knowledge and experience with others using technology and visual means (Information and Communication Technology Literacy).				X	
	PO13	Learns the concepts of architectural design and theories of architecture as well as the intellectual, historical and cultural background to evaluate them from a critical perspective and use them in developing design solutions. One can express one's solutions verbally and in written form. (Knowledge and Ability)					

Discipline Specific Outcomes (program)	**PO14**	Knows to express each stage of the design process formally by using hand drawings together with the European Computer Driving Licence and other software technologies. (Knowledge and Communication Competence)				X	
	PO15	Designing space (environment, construction, building) on different scales that are sensitive to the natural and built environment within the framework of basic design and architectural principles. One also knows research methods. (Knowledge and Ability)					
	PO16	Speak at least one foreign language at B1 General Level of European Language Portfolio to express oneself and to follow developments in the field of architecture. (Knowledge and Communication Competence)				X	
	PO17	Executes an independent project or to take responsibility in multidisciplinary studies, to communicate effectively and share knowledge and competency during the design process. (Competency to work independently and take responsibility)					
	PO18	To knowledge and understanding to analyze building design and systems regarding architectural practice (from prehistoric times to the present). (Knowledge)	X	X	X	X	
	PO19	Develops a design that respectable to cultural heritage and sustainable by recognizing historical and cultural assets and understanding the importance of these values. (Knowledge and Ability)	X	X	X	X	
	PO20	The necessary knowledge and ability about contemporary restoration theories and preparation of restoration project by using research, documentation and different measurement methods in the process of documenting the current state of historic buildings and environments. (Knowledge and Ability)				X	
	PO21	Produces sustainable solutions to current problems by following the developments and technologies in the field of production. (Ability)					
	PO22	Knows to develop designs about environmental and social sustainability principles, the issues related to disasters and accessible designs that meet community needs. (Knowledge and Ability)					
	PO23	Gains the ability to use modern technologies in building and environmental design, to develop and produce innovative solutions; learns necessary information about building materials, techniques and structural behaviors, the laws, regulations and standards and includes them in the design process. (Knowledge and Ability)					
	PO24	To gain the basic knowledge of lighting, acoustics, air conditioning and energy use in the design of environmental systems. (Knowledge)					
	PO25	Knows the historical development of structural systems, types of structural elements such as foundation, wall, flooring, stairs, roof, design, and construction techniques of these elements and applies this information in the projects. (Knowledge and Ability)	X	X	X	X	
	PO26	Has competence in project management, organization, planning, and leadership for the realization of professional practice and informs individuals and institutions on issues related to a field and shares one's suggestions for solutions to the experts or non-experts in verbally and written form. To produce collaborations and projects with the awareness of social responsibility (Competence to take responsibility and social and Ability)					
	PO27	Aware of lifelong learning and identifying the necessary needs for professional development and self-development. (Learning Competence)					
	PO28	Has an awareness of professional and ethical behavior; collects data considering social, environmental, and ethical results. One is responsible for the environment, the professional problems and provides professional services like occupational health and safety within the legal frameworks. (Field Specific Competence)					

PART III (Department Board Approval)

Subject	**Week**	**Subject Explanation**	**LO1**	**LO2**	**LO3**	**LO4**	**LO5**

Course Subjects, Contribution of Course Subjects to Learning Outcomes, and Methods for Assessing Learning of Course Subjects	**S1**	1	Information on the method and process of the course	X	X	X	X	
	S2	2	Definition of historical construction systems and construction elements	X	X	X	X	
	S3	3	Stone construction material I Decision of buildings or construction systems	X	X	X	X	
	S4	4	Stone construction material II	X	X	X	X	
	S5	5	Timber construction material Critics on projects	X	X	X	X	
	S6	6	Adobe construction material Critics on projects	X	X	X	X	
	S7	7	Brick construction material Critics on projects	X	X	X	X	
	S8	8	Midterm Submissions	X	X	X	X	
	S9	9	Steel structures Critics on projects	X	X	X	X	
	S10	10	Reinforced concrete Critics on projects	X	X	X	X	
	S11	11	Project development	X	X	X	X	
	S12	12	Project development	X	X	X	X	
	S13	13	Project development	X	X	X	X	
	S14	14	Presentation	X	X	X	X	

Assessment Methods, Weight in Course Grade, Implementation and Make-Up Rules	**No**	**Type**	**Weight**	**Implementation Rule**	**Make-Up Rule**
	A1	**Exam**	20%	There will be midterm submission	A make-up exam will be given if the student provides an acceptable official document according to university regulations.
	A2	**Quiz**			
	A3	**Homework**			
	A4	**Project**	50%	Project will be submitted at the end of the semester	A make-up exam will be given if the student provides an acceptable official document according to university regulations.
	A5	**Report**			
	A6	**Presentation**	20%		
	A7	**Attendence/Interaction**	10%	Course requirements include; participation in class discussions, completion of assignments and interim presentations by due date	
	A8	**Class/Lab./ Field Work**			
	A9	**Others**			
	TOTAL				

Evidence of Achievement of Learning Outcomes	Students will demonstrate learning outcomes through class activities, debates and project assignments. These activities reflect a transdisciplinary approach, asking the student to make connections between different topics. Generally every topic is tested with at least one exam question.

Method for Determining Letter Grade

Upon successful completion of all assessment methods, the total scores will be averaged and converted into a final letter grade using the following percentages and grading criteria.

ASSESSMENT METHOD	EFFECT ON GRADING	GRADE	MARKS	VALUE	GRADE	MARKS	VALUE
		A+	100	4,00	C+	60-64	2,40
		A	95-100	4,00	C	55-59	2,20
		A-	85-94	3,70	C-	50-54	2,00
		B+	80-84	3,30	D+	45-49	1,70
		B	75-79	3,00	D	40-44	1,50
		B-	65-74	2,70	F	0-39	0,00

	No	**Method**	**Explanation**	**Hours**
	Time applied by Instructor			
	1	**Interactive Lecture**	**The instructor asks questions about the subject described.**	3 hours (13 weeks) =39 hours
	2			
	3			
	4			

Teaching Methods, Estimated Student Load	5			
	6			
	Time expected to be allocated by student			
	7	Project	Final grade will be given according to the projects prepared during the semester.	4 hours (2 weeks) =8 hours
	8	Homework		4 hours
	9	Pre-class Learning of Course Material		2 hours (12 weeks) = 24 hours
	10			
	11			
	12			
	TOTAL			

IV. PART		
Instructor	Name	
	E-mail	
	Phone Number	
	Office Number	
	Office Hours	
Course Materials	Mandatory	
	Recommended	HASOL, D. Dictionary of Architecture and Building. Yem yayınları, İstanbul. FRIEDMAN, D. (2012) Historical Building Construction, Design, Materials and Technology, Norton, W. W. & Company, Inc. PILSITZ, M. (2018). Construction History in Theory and Teaching, Periodica Polythenica Architecture, Budapest. KING, R. (2000). Brunelleschi's Dome: How a Renaissance Genius Reinvented, Penguin Group. ÇELEBİ, M. R. (2012). Anadolu Kerpiç Mimarlığı, T.C. İstanbul Kültür Üniversitesi.
Other	Scholastic Honesty	Violations of scholastic honesty include, but are not limited to cheating, plagiarizing, fabricating information or citations, facilitating acts of dishonesty by others, having unauthorized possession of examinations, submitting work of another person or work previously used without informing the instructor, or tampering with the academic work of other students. Any for of scholastic dishonesty is a serious academic violation and will result in a disciplinary action.
	Students with Disabilities	Reasonable accommodations will be made for students with verifiable disabilities.
	Safety Issues	
	Flexibility	Circumstances may arise during the course that prevents the instructor from fulfilling each and every component of this syllabus; therefore, the syllabus is subject to change. Students will be notified prior to any changes.