

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						Core Course
Course Code	ARC 4401						
Course Name	Building Construction Project						
Language of Instruction	English						
Type of Course	Theory&Practical						
Level of Course	Undergraduate						
Hours per Week	Lecture: 4	Laboratory:	Recitation:	Practical: 2	Studio:	Other:	
ECTS Credit	6						
Grading Mode	Letter Grade						
Pre-requisites	ARC 2406						
Co-requisites	None						
Registration Restriction	None						
Educational Objective	The aim of the Building Science Courses is to have students develop their understanding of building system, acquire skill in system selection and set up.						
Course Description	Information about the development of industrialization in building production and various building systems especially according to the building envelope is given by lecturers in courses. It is also aimed to gain the ability of integrating all the systems learned, studio work follows seminars in order to transfer the information into practice. Students gain skill to select and integrate advanced systems by making their own detailed design projects.						
Learning Outcomes	LO1	Having advanced conceptual and practical knowledge according to building systems					
	LO2	Ability to select and use correct and coherent information according to building sub-systems.					
	LO3	Ability to develop solutions according to the problems occur in integration of different systems and components.					
	LO4	Ability to integrate building sub-systems.					
	LO5	Ability to use acquisition of the course in working drawings of a project designed by the student.					
PART II ( Faculty Board Approval)							
Basic Outcomes (University-wide)		<b>Program Outcomes</b>	<b>LO1</b>	<b>LO2</b>	<b>LO3</b>	<b>LO4</b>	<b>LO5</b>
	PO1	Ability to communicate effectively and write and present a report in Turkish and English.	X	X		X	
	PO2	Ability to work individually, and in intra-disciplinary and multi-disciplinary teams.		X			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	X
	PO4	Knowledge of project management, risk management, innovation and change management, entrepreneurship, and sustainable development.			X	X	X
	PO5	Awareness of sectors and ability to prepare a business plan.					X
Faculty Specific Outcomes	PO6	Understanding of professional and ethical responsibility and demonstrating ethical behavior.	X	X	X	X	X
	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	X		
	PO9	Gain the ability of leadership, entrepreneurship and self-leadership skills (Leadership and Entrepreneurship).					X
	PO10	Care about the ethical values and principles; behave in accordance with these in professional and social life (Ethical Behavior).			X	X	
	PO11	Understand, define and reach the information that they need; use information effectively and share it with others (Information Literacy).	X	X	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	X	X	X

<b>Discipline Specific Outcomes (program)</b>	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)						X
	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)						
	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	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)						
	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)						
	PO21	Produces sustainable solutions to current problems by following the developments and technologies in the field of production. (Ability)	X	X	X	X	X	X
	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)	X	X	X	X	X	X
	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	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)						X
PO27	Aware of lifelong learning and identifying the necessary needs for professional development and self-development. (Learning Competence)						X	

	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)						
<b>PART III (Department Board Approval)</b>								
<b>Course Subjects, Contribution of Course Subjects to Learning Outcomes, and Methods for Assessing Learning of Course Subjects</b>	<b>Subject</b>	<b>Week</b>	<b>Subject Explanation</b>	<b>LO1</b>	<b>LO2</b>	<b>LO3</b>	<b>LO4</b>	<b>LO5</b>
	S1	1	Introduction of the course	X	X	X	X	X
	S2	2	1/100 Avan Project Design	X				X
	S3	3	1/100 Avan Project and Structural System Design	X		X		X
	S4	4	Design Development (1/50 plan, section, elevation)	X				X
	S5	5	Design Development (1/50 formwork plan, section, 1/50 floor plan, section)	X				X
	S6	6	Design Development (1/20 wall and façade plan, section, elevation)	X	X	X	X	X
	S7	7	Design Development (1/20 wall and façade plan, section, elevation)	X	X	X	X	X
	S8	8	Midterm Exam	X	X	X	X	X
	S9	9	Design Development (1/50 roof plan, section)	X	X	X	X	X
	S10	10	Design Development (1/20 stair plan, section)	X	X	X	X	X
	S11	11	Design Development (1/10, 1/5 stair detail plan, section)	X	X	X	X	X
	S12	12	Design Development (1/20 system detail)	X	X	X	X	X
	S13	13	Design Development (1/20 system detail)	X	X	X	X	X
	S14	14	Final Control	X	X	X	X	X
<b>Assessment Methods, Weight in Course Grade, Implementation and Make-Up Rules</b>	<b>No</b>	<b>Type</b>		<b>Weight</b>	<b>Implementation Rule</b>		<b>Make-Up Rule</b>	
	A1	Exam		30%	There will be one midterm exam. Midterm exam date will be determined during the semester.		A make-up exam will be provided if the student provides an acceptable legitimate document, according to the school regulation	
	A2	Quiz			-		-	
	A3	Homework			-		-	
	A4	Project		30%	The project will end with a presentation.			
	A5	Report			-			
	A6	Presentation			-			
	A7	Attendance/Interaction						
	A8	Class/Lab./Field Work						
	A9	Final Submission		40%	There will be one final		A make-up exam will be	
<b>TOTAL</b>				<b>100%</b>				
<b>Evidence of Achievement of Learning Outcomes</b>	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.							
<b>Method for Determining Letter Grade</b>	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.							
	<b>ASSESSMENT METHOD</b>	<b>EFFECT ON GRADING</b>	<b>GRADE</b>	<b>MARKS</b>	<b>VALUE</b>	<b>GRADE</b>	<b>MARKS</b>	<b>VALUE</b>
	Studio Work	30%	A+	100	4,00	C+	60-64	2,40
	Midterm Exam	30%	A	95-100	4,00	C	55-59	2,20
	Final Submission	40%	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	
	<b>No</b>	<b>Method</b>		<b>Explanation</b>				<b>Hours</b>
<b>Time applied by Instructor</b>								
	1	Lecture		The course will be presented with slides, workshops drawing and interviews that is processed.				2 hours (13 weeks)=26 hrs

Teaching Methods, Estimated Student Load	2	Interactive Lecture			
	3	Recitation			
	4	Laboratory			
	5	Practical	Students must make the revisions about their projects according to the instructions of lecturer	4 hours (13 weeks)=52 hrs	
	6	Field Work			
	<b>Time expected to be allocated by student</b>				
	7	Project			
	8	Homework	Homework that can not be completed during the course must be delivered the following week.	3 hours (13 weeks)=39 hrs	
	9	Pre-class Learning of Course Material	Group study before class	2 hours (13 weeks)=26 hrs	
	10	Review of Course Material	Weekly lessons and pre-exam work	7 hrs	
	11	Studio			
	12	Office Hour			
<b>TOTAL</b>				<b>150 hours</b>	

#### IV. PART

Instructor	Name	
	E-mail	
	Phone Number	
	Office Number	
	Office Hours	2 hours (according to school semestire)
Course Materials	Mandatory	Neufert-Yapı Tasarımı, Neufert ErnestŞahinler, Kızıl "Mimarlıkta Teknik Resim" (YEM Yayın) Yücesoy "Temeller, Duvarlar, Döşemeler", (Yapı Yayın) Toydemir, Bulut "Çatılar", (YEM Yayın) Mimarlar Odası Genel Merkezi "Mimari Proje Çizim ve Sunuş Standartları" Bayındırlık ve İskan Bakanlığı "Mimari Proje Düzenleme Esasları"
	Recommended	1312 sayılı/13.06.2007 tarihli İBB İstanbul İmar Yönetmeliği RG-18749/09.05.1985-3194 sayılı İmar Kanunu RG-26454/06.03.2007 Deprem Bölge, Yapılacak Binalar Hk. Yönetmelik pdf dosyası Ekler RG-27019/09.10.2008 Binalarda Isı Yalıtım Yönetmeliği RG-27019/09.10.2008 Binalarda Isı Yalıtım Yönetmeliği Ekleri RG-24827/26.07.2002 Binaların Yangından Korunması Hk. Yönetmelik 1391 sayılı/13.06.2007 tarihli İBB İstanbul Otopark Yönetmeliği pdf dosyası Otopark Yönetmeliği Genel Tebliğ Otopark Yönetmeliği Değişiklik RG-25021/15.02.2003 Asansör Yönetmeliği
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 form 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.

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