		PART I ( Senate Approval)								
Offering School	Antalya Bilim U	University-Faculty of Fine Arts and Architecture								
Offering Department	Architecture									
Program(s) Offered to	Architecture Core Cours									
Course Code	ARC 1404	N TO BUILDING SCIENCE			_					
Course Name Language of Instruction	English	IN TO BOILDING SCIENCE								
Type of Course Level of Course	Theory Undergraduate									
Hours per Week	Lecture: 3	Laboratory: Recitation:	Practical:	Studio:		Other:				
ECTS Credit Grading Mode	5 Letter Grade									
Pre-requisites	Letter Grade									
Co-requisites Registration Restriction										
Educational Objective	information abou Explaining the c	ims to help students learn basic concepts about building and construction at detail design. The conceptual knowledge acquired is supported by insoncepts of building, construction and architecture. Introducing building irrements. Introducing the materials used in building elements with exam	tudio practices elements and c							
Course Description		mation about building and construction systems to the students through the studio environment to reinforce the acquired knowledge. Questioning s.								
	LO1	Students' understanding of basic information about structure								
	LO2	Ability to define performance requirements in building design								
Learning Outcomes	LO3	Knowledge of material recognition and selection								
	LO4	Ability to have knowledge and practice about the carrier system								
	LO5									
	1	PART II ( Faculty Board Approva	al)							
		Program Outcomes	LO1	LO2	LO3	LO4	LO5			
	PO1	Ability to communicate effectively and write and present a report in Turkish and English.								
	PO2	Ability to work individually, and in intra-disciplinary and multi- disciplinary teams.								
Basic Outcomes (University-wide)	РО3	Recognition of the need for life-long learning and ability to access information, follow developments in science and technology, and continually reinvent oneself.								
	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.								
	PO7	Gain the ability of conceptualizing, applying, analyzing, synthesizing and evaluating information effectively (Critical Thinking)	X	X	x	x	х			
	PO8	Produce innovative ideas and products with creativity (Creativeness).								
	PO9	Gain the ability of leadership, entrepreneurship and self-leadership skills (Leadership and Entrepreneurship).								
Faculty Specific Outcomes	PO10	Care about the ethical values and principles; behave in accordance with these in professional and social life (Ethical Behavior).								
	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).					Х			
	PO13	Leams 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)								
	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)								
	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	х	х			

	PO19	by recognizing l	gn that respectable to cultural heritage and sustainable historical and cultural assets and understanding the nese values. (Knowledge and Ability)					
Discipline Specific Outcomes (program)	PO20	theories and pre- documentation a	nowledge and ability about contemporary restoration paration of restoration project by using research, and different measurement methods in the process of e current state of historic buildings and environments. I Ability)					
	PO21		nable solutions to current problems by following the nd technologies in the field of production. (Ability)	X	X	X	X	Х
	PO22	sustainability pr	op designs about environmental and social rinciples, the issues related to disasters and accessible et community needs. (Knowledge and Ability)					
	PO23	environmental d learns necessary structural behavi	y to use modern technologies in building and lesign, to develop and produce innovative solutions; information about building materials, techniques and iors, the laws, regulations and standards and includes ign process. (Knowledge and Ability)	х	х	Х	х	х
	PO24		ic knowledge of lighting, acoustics, air conditioning in the design of environmental systems. (Knowledge)					
	PO25	structural element design, and cons	orical development of structural systems, types of nts such as foundation, wall, flooring, stairs, roof, struction techniques of these elements and applies this he projects. (Knowledge and Ability)	х	х	Х	Х	Х
	PO26	leadership for th individuals and one's suggestion verbally and wri with the awarene	in project management, organization, planning, and he realization of professional practice and informs institutions on issues related to a field and shares has for solutions to the experts or non-experts in itten form. To produce collaborations and projects ess of social responsibility (Competence to take hd social and Ability)					
	PO27		ng learning and identifying the necessary needs for relopment and self-development. (Learning	X	x	X	X	X
	PO28	Has an awarenes considering soci responsible for t provides profess	is of professional and ethical behavior, collects data ial, environmental, and ethical results. One is the environment, the professional problems and sional services like occupational health and safety frameworks. (Field Specific Competence)					
		l	PART III (Department Board Appr	oval)	l	L	L	l
	Subject	Week	Subject Explanation	LO1	LO2	LO3	LO4	LO5
	S1	1	Giving general information about the course	X	X	X	X	X
	S2	2	Giving general information about Building Information and introducing the concepts	X	X	X	X	X
	S3	3	Performance requirements	X	x	X	X	X
	S4	4	Discussion of performance requirements over space types	X	X	X	X	X
	S5	5	Introduction to structural system	X	X	X	X	X
Course Subjects, Contribution of Course	86	6	Masonry systems	X	X	X	X	X
Subjects to Learning Outcomes, and Methods for	S7	7	Skeletal systems					
Assessing Learning of Course Subjects	S8	8	·	X	X	X	X	X
		9	Midterm	X	X	X	X	X
	S9		Structural system- application	X	X	X	X	X
	S10	10	Structural system- application  Material selection criteria based on performance	X	X	X	X	X
	S11	11	requirements	X	X	X	X	X
	S12 S13	12	Student presentations Introduction of building elements, concepts	X	X	X	X	X
	S13	14	Application and general repetition of the course	X X	X	X	X	X
	No	Type		Weight		tation Rule		Up Rule
	A1	Midterm Exam		20%	A make-up exam wi There will be one midterm exam. Provided if the stud provides an acceptal determined during the semester. Igitimate documen to the school regula			student eptable ment, according
Assessment Methods,	A2	Quiz		10%	There will quiz(es). The date will be determined during the semester.  A make-up exam will be provided if the student provided if the student provides an acceptable legitimate document, act to the school regulation			student eptable ment, according gulation
	A3	Homework		30%	A make-up homework from the students throughout the semester  A make-up homework provided if the student provides an acceptable legitimate document, to the school regulation.			student eptable ment, according
Weight in Course Grade, Implementation and Make-	A4	Project		<u>L</u>				
Up Rules								

	A6	Presentation								
	A7	Attendence/Inte	eraction							
	4.0	Class/Lab./								
	A8	Field Work								
							A make-up exa	m will be		
	4.0	Final		40%	There will be on Final exam date		provided if the provides an acc			
	A9	Tillai		1070	determined duri		legitimate docu	iment, according		
						to the school regulation				
	TOTAL			100%						
Evidence of Achievement of			outcomes through class activities, debates and project ass	ignments. These	activities reflect	a transdisciplina	ry approach, ask	ing the student		
Learning Outcomes	to make connections between different topics.  Generally every topic is tested with at least one exam question.									
Method for Determining Letter Grade		ompletion of all as	ssessment methods, the total scores will be averaged and o	converted into a	final letter grade u	ising the followi	ng percentages a	and grading		
	ASSESSMENT	EFFECT ON	I	1		ı	1	1		
	METHOD	GRADING	GRADE	MARKS	VALUE	GRADE	MARKS	VALUE		
	Midterm	20%	A+	100	4,00	C+	60-64	2,40		
	Quiz	10%	A	95-100	4,00	C	55-59	2,20		
	Homework	30%	A-	85-94	3,70	C-	50-54	2,00		
	Final	40%	B+	80-84	3,30	D+	45-49	1,70		
			B B-	75-79 65-74	3,00 2,70	D F	40-44 0-39	1,50 0,00		
	No	Method	D-	03-74	Expla		0-39	Hours		
	Time applied by				1					
				Lecturing and	3 hours					
	1	Lecture		questions and exams.	l answers to str	engthen learnii	ig. In class	(13 weeks) =39 hrs		
	2	Interactive Lec	ture							
	3	Recitation								
	4	Laboratory		+ -						
	5	Practical		Quiz						
				A site visit car	a site visit can be made with the students or a competent					
	6	Field Work		officer can visit the course.						
Teaching Methods,	=1 I Time expected to be allocated by student									
Estimated Student Load								1 hours		
	7	Project	midterm		lterm					
								=1 hrs 5 hours		
					homework					
	8	Homework		homework				(11 weeks)		
	8	Homework		homework				=55 hrs 1 hours		
	8		ing of Course Material	homework final				=55 hrs 1 hours (1 weeks)		
			ing of Course Material					=55 hrs 1 hours (1 weeks) =1 hrs		
					eration			=55 hrs 1 hours (1 weeks) =1 hrs 1 hours (7 weeks)		
	9	Pre-class Learn		final midterm prep				=55 hrs 1 hours (1 weeks) =1 hrs 1 hours		
	9	Pre-class Learn		final				=55 hrs 1 hours (1 weeks) =1 hrs 1 hours (7 weeks) =7 hrs 1 hours (12 weeks)		
	9	Pre-class Learn		final midterm prep				=55 hrs 1 hours (1 weeks) =1 hrs 1 hours (7 weeks) =7 hrs 1 hours (12 weeks) =12 hrs 1 hours		
	9 10 11	Pre-class Learn Review of Cour		final midterm prep final exam pr				=55 hrs 1 hours (1 weeks) =1 hrs 1 hours (7 weeks) =7 hrs 1 hours (12 weeks) =12 hrs		
	9 10 11 12 TOTAL	Pre-class Learn Review of Cour		final midterm prep final exam pr				=55 hrs 1 hours (1 weeks) =1 hrs 1 hours (7 weeks) =7-hrs 1 hours (12 weeks) =12 hrs 1 hours (8 weeks)		
	9 10 11 12 TOTAL	Pre-class Learn Review of Cour	se Material	final midterm prep final exam pr				=55 hrs 1 hours (1 weeks) =1 hrs 1 hours (7 weeks) =7-hrs 1 hours (12 weeks) =12 hrs 1 hours (8 weeks)		
Instructor	9 10 11 12 TOTAL Name E-mail Phone Number	Pre-class Learn Review of Cour	se Material	final midterm prep final exam pr				=55 hrs 1 hours (1 weeks) =1 hrs 1 hours (7 weeks) =7 hrs 1 hours (12 weeks) =12 hrs 1 hours (8 weeks)		
Instructor	9 10 11 12 TOTAL  Name E-mail Phone Number Office Number	Pre-class Learn Review of Cour	IV. PART 0242 245 00 00	final midterm prep final exam pr				=55 hrs 1 hours (1 weeks) =1 hrs 1 hours (7 weeks) =7 hrs 1 hours (12 weeks) =12 hrs 1 hours (8 weeks)		
Instructor	9 10 11 12 TOTAL Name E-mail Phone Number Office Number Office Hours	Pre-class Learn Review of Cour	se Material  IV. PART	final midterm prep final exam pr				=55 hrs 1 hours (1 weeks) =1 hrs 1 hours (7 weeks) =7-hrs 1 hours (12 weeks) =12 hrs 1 hours (8 weeks)		
Instructor	9 10 11 12 TOTAL  Name E-mail Phone Number Office Number	Pre-class Learn Review of Cour	IV. PART  0242 245 00 00 6 hours (according to school semestre)	final midterm prep final exam pr meetings	eperation	' John Wiley	ad Sans 1000	=55 hrs 1 hours (1 weeks) =1 hrs 1 hours (7 weeks) =7 hrs 1 hours (12 weeks) =12 hrs 1 hours (8 weeks)		
Instructor	9 10 11 12 TOTAL Name E-mail Phone Number Office Number Office Hours	Pre-class Learn Review of Cour	IV. PART 0242 245 00 00	final midterm prep final exam pr meetings	eperation	", John Wiley a	nd Sons, 1990.	=55 hrs 1 hours (1 weeks) =1 hrs 1 hours (7 weeks) =7 hrs 1 hours (12 weeks) =12 hrs 1 hours (8 weeks)		
Instructor	9 10 11 12 TOTAL Name E-mail Phone Number Office Number Office Hours	Pre-class Learn Review of Cour	IV. PART  0242 245 00 00 6 hours (according to school semestre)  Allen, E., Iano, J., "Fundamentals of Building Constlance, A., "Internal Components", Mitchell's Building Construction Illustrated"	final midterm prep final exam pr meetings  truction, Materia g Series, Long y Van Nostrand	als and Methods' man, 1994. Reinhold, 1991.		nd Sons, 1990.	=55 hrs 1 hours (1 weeks) =1 hrs 1 hours (7 weeks) =7 hrs 1 hours (12 weeks) =12 hrs 1 hours (8 weeks)		
	9 10 11 12 TOTAL Name E-mail Phone Number Office Number Office Hours	Pre-class Learn Review of Cour	IV. PART  1V. PART  0242 245 00 00  6 hours (according to school semestre)  Allen, E., Iano, J., "Fundamentals of Building Const Blanc, A., "Internal Components", Mitchell's Buildin	final midterm prep final exam pr meetings  truction, Materia, Series, Long, Van Nostrand	alls and Methods' man, 1994. Reinhold, 1991.			=55 hrs 1 hours (1 weeks) =1 hrs 1 hours (7 weeks) =7 hrs 1 hours (12 weeks) =12 hrs 1 hours (8 weeks)		
Instructor  Course Materials	9 10 11 12 TOTAL Name E-mail Phone Number Office Number Office Hours	Pre-class Learn Review of Cour	IV. PART  1V. PART  1V. PART  10242 245 00 00  6 hours (according to school semestre)  Allen, E., Iano, J., "Fundamentals of Building Const Blanc, A., "Internal Components", Mitchell's Buildin Ching, F. D. K., "Building Construction Illustrated" Chudley, R., "Construction Technology I, II, III, IV" Foster, J. S., Raymond Harrington, R., "Structure Foster, J. S., "Structure and Fabric, Part 1", Mitchell	final midterm prep final exam pr meetings  truction, Materia g Series, Long y Van Nostrand , Longman Ltd. d Fabric, Part 2 's Building Ser	als and Methods' man, 1994. Reinhold, 1991. , 1999.	ilding Series, L		=55 hrs 1 hours (1 weeks) =1 hrs 1 hours (7 weeks) =7 hrs 1 hours (12 weeks) =12 hrs 1 hours (8 weeks)		
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