		PART I (Senate Approval)						
Offering School	Antalya Bilim University-Faculty of Fine Arts and Architecture								
Offering Department	Architecture								
Program(s) Offered to	Architecture Must								
Course Code	ARC 2006								
Course Name	Sustainable Design in Architecture								
0 0	English								
Type of Course Level of Course	Theory/Practice Undergraduate								
Hours per Week						Other:			
ECTS Credit	4	1 - 1							
Grading Mode	Letter Grade								
Pre-requisites Co-requisites	None None	None							
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Registration Restriction Educational Objective	The course design to approach from a sustainable design perspective and it draws attention to the need for a basic conceptual change from existing paradigms to a more sustainable system based on harmless and efficient use of materials and energy. Through assignments, classroom work and team projects, students will be able to move to the level where they cannot make mistakes in our current production and consumption systems and offer suggestions to solve problems.								
Course Description		It examines issues that highlight energy-efficient design approaches and strategies based on economic, social and environmental benefits. It teaches sustainable principles based on passive and active green design. Green design evaluation tools are also introduced.							
	LO1	LO1 To understand their role in sustainability from various (as designer or a user) perspectives.							
I america O d	LO2	To become familiar with the current frameworks for green design	n and articulate	the pros and co	ons of these str	ategies.			
Learning Outcomes	LO3	To understand various tradeoffs to maximize sustainable potentia							
	LO4	To practice and demonstrate efficient way of utilizing natural rese							
		DADT II (Foculty Doord Annual	avial)						
Basic Outcomes (University-wide)		PART II (Faculty Board Appr	ĺ	1.00	1.02	1.04			
		Program Outcomes Ability to communicate effectively and write and present a report in	LO1	LO2	LO3	LO4			
	PO1	Turkish and English.		X	X	X			
	PO2	Ability to work individually, and in intra-disciplinary and multi- disciplinary teams.	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.	Х	X	X	x			
	PO4	Knowledge of project management, risk management, innovation and change management, entrepreneurship, and sustainable development.	X	X	X	X			
	PO5	Awareness of sectors and ability to prepare a business plan.							
	PO6	Understanding of professional and ethical responsibility and demonstrating ethical behavior.	X						
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)			X				
	PO10	The graduated students 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).	Х	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).							
	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		х			

X
X

Discipline Specific Outcomes (program)

	PO26	and leadership informs indiv and shares on experts in ver and projects v	nce in project management, organization, planning, p for the realization of professional practice and iduals and institutions on issues related to a field e's suggestions for solutions to the experts or non-bally and written form. To produce collaborations with the awareness of social responsibility to take responsibility and social and Ability)	X			
	PO27		long learning and identifying the necessary needs all development and self-development. (Learning	X			
	PO28	data consider is responsible and provides	ness of professional and ethical behavior; collects ing social, environmental, and ethical results. One for the environment, the professional problems professional services like occupational health and the legal frameworks. (Field Specific Competence)				
			PART III (Department Board Ap	proval)			
	Subject	Week	Subject Explanation	LO1	LO2	LO3	LO4
	S1	1	Syllabus review Briefing on Sustainable Design				
	S2	2	Group Discussion on Sustainable Design, Green Design, and Eco-Design		X		
	S3	3	Discussion on Sustainable Design, Green Design, and Eco-Design will continue with visual documentation.		X		
	S4	4	Session 1: Passive Design Principles: Site Analyses & Synthesis, Site Plan	X	X	X	
	S5	5	Site analyses & synthesis, Site Plan Review	X	X	X	
Course Subjects, Contribution of Course	S6	6	Choosing Site Site Analyses Practice	X	X	X	Х
Subjects to Learning Outcomes, and Methods for Assessing Learning of Course Subjects	S7	7	Passive Heating, Passive Cooling	X	X	X	
Course Subjects	S8	8	Midterm Exam	X	X	X	Х
	S9	9	Passive Heating, Passive Cooling	X	X	X	
	S10	10	Thermal Mass, Insulation	X	X	X	
	S11	11	Window Design: Natural Daylight Window Design: Shadings	X	X	X	
	S12	12	Window Design: Natural Ventilation Active systems	X	X	X	
	S13	13	Project Review	X	X	X	X
	S14	14	Project Review	X	X	X	Х
	No Type				Implemen	tation Rule	Make-Up Rule
	A1	Exam					

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	A2	Quiz		10%	Ther is no participation points. During class time Quizes will be hand out to promote participation		no make-up exam	
Assessment Methods, Weight in Course Grade, Implementation and Make- Up Rules	A3	Homework		15%	Homework will be given during the class time; also, students will be responsible to kept note and draw during lecture to get points.		no make up	
Cp Kules	A4	Project		75%	It is conducted as an exam that shows that the topics covered in the course have been reduced to the project/space/structure scale. Midterm (25%) and Final (50%) are given in 2 semesters.		A make-up exam will be provided if the student provides an acceptable legitimate document, according to the school regulation	
	A5	Report						
	A5 Report A6 Presentation -							
	A7	Attendence/l Class/Lab./F						
	A8	Class/Lab./1	Kiu Work					
	A9	Others						
	TOTAL			100%				
Evidence of Achievement of Learning Outcomes	Students will demonstrate learning outcomes through weekly homework, in-class assignments, Midterm exams and Final project. 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.	. completion of		and converted in	to a man letter g.	ade using the re-	no wing percenta	ges and grading
	ASSESSMENT METHOD	EFFECT ON GRADING	GRADE	MARKS	VALUE	GRADE	MARKS	VALUE
Method for Determining	Participation	25%	A+	-		C+	60-64	2,4
Letter Grade	Midterm	25%	A		4.00	C	55-59	2,2
	Final	50%	A- B+	85-94	3,7 3,3	C- D+	50-54 45-49	2 1,7
			В	80-84 75-79	3.00	D ⁺	40-44	1,7
			B-	65-74	2,7	F	0-39	0.00
	No	Method			Expla	nation		Hours
	Time expecte	d to be alloca	ted by instructor	l				
	1	Lecture		The course wi	ll be explained	by slide present	tations.	12*2=24
	2	Interactive I	ecture	The examples given during the lesson will be drawn and practiced by the student in order to comprehend the given information.				12*2=24
	3	Recitation						
	5	Laboratory Practical						
	6							
Teaching Methods,	Time expected to be allocated by student						1	
Estimated Student Load	Time expecte	Field Work d to be alloca	ted by student					
	Time expecte		ted by student		ojects will be go			1*18=18
		d to be alloca	ted by student					1*18=18
	7	Project Homework	ted by student arning of Course Material	whether the co		learned through	n practice.	1*18=18 6*3=18
	7 8	Project Homework Pre-class Les		Reading the diphase	ourse content is	given during the	n practice.	
	7 8 9 10	d to be alloca Project Homework Pre-class Lea Prepare Fina Studio	arning of Course Material	Reading the diphase	scussion topics	given during the	n practice.	6*3=18
	7 8 9 10 11	d to be alloca Project Homework Pre-class Le: Prepare Fin:	arning of Course Material	Reading the diphase	scussion topics	given during the	n practice.	6*3=18 1*16=16
	7 8 9 10	d to be alloca Project Homework Pre-class Lea Prepare Fina Studio	arning of Course Material al Project Poster	Reading the diphase	scussion topics	given during the	n practice.	6*3=18
	7 8 9 10 11 12 TOTAL	d to be alloca Project Homework Pre-class Le: Prepare Fin: Studio Office Hour	arning of Course Material	Reading the diphase	scussion topics	given during the	n practice.	6*3=18 1*16=16
	7 8 9 10 11 12 TOTAL	d to be alloca Project Homework Pre-class Lea Prepare Final	arning of Course Material al Project Poster	Reading the diphase	scussion topics	given during the	n practice.	6*3=18 1*16=16
	7 8 9 10 11 12 TOTAL Na E-n Phone I	d to be allocated to be alloca	arning of Course Material al Project Poster	Reading the diphase	scussion topics	given during the	n practice.	6*3=18 1*16=16
Estimated Student Load	7 8 9 10 11 12 TOTAL Na E-n Phone I	d to be allocated to be alloca	arning of Course Material al Project Poster	Reading the diphase	scussion topics	given during the	n practice.	6*3=18 1*16=16

Course Materials	Mandatory	The book prepared for the course is arranged by the instructor and there are blank boxes along with the information. These empty boxes will be filled with drawings and assignments to be shown during the course time. This book will be evaluated at the end of the semester and given back to the students for the future reference.			
	Recommended	Mechanical and Electrical Eqipment for Buildings. Walter T. Grondzik, Alison G. Kwok, Benjamin Stein and John S. Reynolds. https://www.usgbc.org/resources/leed-v4-building-design-and-construction-current-version			
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.			

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