

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					Elective	
Course Code	ARC4062						
Course Name	Sustainable urban design						
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	None						
Co-requisites	None						
Registration Restriction	None						
Educational Objective	To provide students with - understanding of sustainability and its relationships with the built environment. - skills of planning and design of sustainable urban environments.						
Course Description	This course provides a general account for sustainability and its relationship with the built environment. The theories, concepts, and application of sustainable urban design. Case studies of sustainable urban design projects. Sustainable urban design in Turkey						
Learning Outcomes	LO1	To understand the concept of sustainability.					
	LO2	To establish the relationship between sustainability and the built environment.					
	LO3	To outline the different concepts and theories of sustainable urban design.					
	LO4	To investigate the different application of sustainable urban design in their design exercises					
	LO5	To analyze and evaluate the different types of urban design projects in the light of sustainability measures.					
PART II (Faculty Board Approval)							
Basic Outcomes (University-wide)		Program Outcomes	LO1	LO2	LO3	LO4	LO5
	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
	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	X	X
	PO5	Awareness of sectors and ability to prepare a business plan.					
Faculty Specific Outcomes	PO6	Understanding of professional and ethical responsibility and demonstrating ethical behavior.	X	X	X	X	X
	PO7	The graduated students have the ability of conceptualizing, applying, analyzing, synthesizing and evaluating information effectively (Critical Thinking).	X	X	X	X	
	PO8	The graduated students produce innovative ideas and products with creativity (Creativeness).					
	PO9	The graduated students have 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	X	X	X	X
	PO11	The graduated students; 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	The graduated students can effectively use information 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)	X			X	X

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	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)	X	X	X		X	X
	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	X	X			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)	X	X	X			X
	PO18	To knowledge and understanding to analyze building design and systems regarding architectural practice Using computer aided communication technologies at the level required by the profession (from prehistoric times to the present). (Knowledge)	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			
	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)						
	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)						
	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)

Course Subjects, Contribution of Course Subjects to Learning	Subject	Week	Subject Explanation	LO1	LO2	LO3	LO4	LO5
	S1	1	Introduction	X	X			
	S2	2	Principles of sustainability	X	X	X	X	X
	S3	3	Environmental dimension of urban design	X	X	X	X	X
	S4	4	Economic dimension of urban design	X	X	X	X	X
	S5	5	Social dimension of urban design	X	X	X	X	X
	S6	6	Principles of sustainable urban design	X	X	X	X	X

Outcomes, and Methods for Assessing Learning of Course Subjects	S7	7	Practical applications of sustainable urban design	X	X	X	X	X
	S8	8	Midterm Exam	X	X	X	X	X
	S9	9	The public realm	X	X	X	X	X
	S10	10	Movement and transportation	X	X	X	X	X
	S11	11	Green structure	X	X	X	X	X
	S12	12	Social and cultural activities	X	X	X	X	X
	S13	13	Case studies	X	X	X	X	X
	S14	14	Revision	X	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		70%	There will be two exams: a midterm exam (%20), scheduled according to the course schedule, and the final exam (%50).		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	Semester Project		20%	A research project about one of the subjects which is included in the course will be submitted. By means of the research project, to develop the competent use of the vocabulary and literature and also to improve the ability of the critical and contextual analysis will be encouraged.		There is no make-up for research project.. Points will be deducted for late submissions.	
	A5	Report			-			
	A6	Presentation			-			
	A7	Interaction		10%	Attendance, class participation and behaviour during the class time will be part of the final evaluation.			
	A8	Class/Lab./Field 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 exam.							
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	GRADE	MARKS
	Interaction	10%	10%	A+	-	C+	60-64	
	Research Project	20%		A	95-100	C	55-59	
	Midterm exam	20%		A-	85-94	C-	50-54	
	Final exam	50%		B+	80-84	D+	45-49	
				B	75-79	D	40-44	
				B-	65-74	F	0-39	
Öğretim Metodları, Tahmini Öğrenci Yüku	No	Method	Explanation				Hours	
	Time applied by Instructor							
	1	Lecture	Lecturing and utilizing whiteboard and slides. Sample questions and answers to strengthen learning. In class exams.				3 hours (13 weeks)=39 hrs	
	2	Interactive Lecture						
	3	Recitation						
	4	Laboratory						
	5	Practical						
	6	Field Work						
	Time expected to be allocated by student							
	7	Project					1 hours (15 weeks)= 15 hrs	
8	Homework							
9	Pre-class Learning of Course Material	Individual study before / after class				1 hours (15weeks)= 13hrs		
10	Review of Course Material							

	11	Midterm Exam		3 hours
	12	Final Exam		3 hours
TOTAL				75 hours
IV. PART				
Instructor	Name			
	E-mail			
	Phone Number			
	Office Number			
	Office Hours		4 hours (according to school semestre)	
Course Materials	Mandatory			
	Recommended		<p>Flannery, John A and Smith, Karen M. (2011). Eco-Urban Design (case Studies). Springer BAL, Ufuk (2007). utilization of Urban design principles in designing the urban space – case studies on the Netherlands and Turkey. MA thesis, Izmir Institute of Technology</p> <p>Frey, Hildebrand (1999). Designing the City: Towards a more sustainable urban form. Routledge, NY</p> <p>MOOR, M and ROWLAND, JAND (2006). Urban design futures. Routledge, NY.</p> <p>Oktay, Derya (2004). Urban design for sustainability: A study on the Turkish city. The International Journal of Sustainable Development & World Ecology, 11:1, 24-35,</p>	
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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