

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
ENVIRONMENTAL SYSTEMS: BUILDING DYNAMIC II	ICT3210059	Spring Semester	2+1	2,5	3
<b>Prerequisites Courses</b>	ÇEVRESEL SİSTEMLER: YAPIM DİNAMIĞI I				
<b>Recommended Elective Courses</b>					
<b>Language of Instruction</b>	Turkish				
<b>Course Level</b>	First Cycle (Bachelor's Degree)				
<b>Course Type</b>	Required				
<b>Course Coordinator</b>	Assist.Prof. Esra BAYIR				
<b>Name of Lecturer(s)</b>	Assist.Prof. Esra BAYIR				
<b>Assistant(s)</b>	R.A Zübeyde Keskin				
<b>Aim</b>	It is aimed to understand the relationship between the building and environmental comfort systems and to convey the subjects related to the natural-mechanical installation/systems necessary to provide the environmental comfort conditions that the users need in the building units.Relationship between design and technology in the context of environmental systems and building installation; the effects of environmental parameters and mechanical installations on design and applications depending on technological developments; its relationship with the building unit; It includes topics such as ventilation, lighting, electricity, fire, acoustics.				
<b>Course Content</b>	This course contains; .....				
<b>Course Learning Outcomes</b>			<b>Teaching Methods</b>	<b>Assessment Methods</b>	
			12, 18, 2, 6, 9	A, E	
<b>Teaching Methods</b>	12: Problem Solving Method, 18: Micro Teaching Technique, 2: Project Based Learning Model, 6: Experiential Learning, 9: Lecture Method				
<b>Assessment Methods</b>	A: Traditional Written Exam, E: Homework				
<b>Lecture Schedule</b>					
<b>Sequence</b>	<b>Topics</b>	<b>Preliminary Preparation</b>			
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
<b>Evaluation Methods</b>		<b>Weight(%)</b>			
Midterm Exam		50			
General Exam		50			

Resources	
<p>Neufert, E.; (1997), "Yapı Tasarımı Genel Bilgileri", Güven Kitabevi.                      Ching, F.D.K., Adams, C.; (2000), "Building Construction Illustrated"; John Wiley and Sons.                      Wise, A.F.E., Swaffield, J.A.; (2002), "Structures", Prentice Hall.                      Allen, E.; (2005), "How Buildings Work", New York, Oxford University Press.                      (2001), "Building design and construction handbook", McGraw-Hill Companies, Inc. 6th edition.                      Arphan, A.; (1975), "Yapı Tesisatı Bölüm 1", Devlet Güzel Sanatlar Akademisi. "Mimarın Tesisat El Kitabı, İsisan Çalışmaları No:238", İsisan Yayınları.                      Küçükçalı, R.; (2008) "Mimarın Tesisat El Kitabı-Cilt 1-2", İsisan Yayınları.                      Heerwagen, D., (2004) "Passive and Active Environmental Controls, McGrawHill".                      Brown, G.Z., De Kay, M., (2001) "Sun, Wind &amp; Light, Wiley and Sons", New York.                      Stein, B., Reynolds, J.S., (2000) "Mechanical and Electrical Equipment for Buildings, John Wiley and Sons, Canada.                      Hegger, M., (2008) "Energy Manual Sustainable Architecture, Birkhauser Verlag".                      Hawkes, D., Forster, W., (2002) "Energy Efficient Buildings: Architecture", Engineering and Environment, W W. Norton&amp;Company, New York.                      Long, M., (2013) "Architectural Acoustics", Academic Press.                      Maekawa, Z., Rindel, J.H., Lord, P., (2011) "Environmental and Architectural Acoustics", CRC Press.</p>	