

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
ENVIRONMENTAL SYSTEMS: BUILDING DYNAMIC I	ICT3110058	Fall Semester	2+1	2,5	3
Prerequisites Courses					
Recommended Elective Courses					
Language of Instruction	Turkish				
Course Level	First Cycle (Bachelor's Degree)				
Course Type	Required				
Course Coordinator	Assist.Prof. Esra BAYIR				
Name of Lecturer(s)	Assist.Prof. Esra BAYIR				
Assistant(s)	R.A Zübeyde Keskin				
Aim	It includes environmental building systems and building installations. It is aimed to examine the relationships of physical environmental control, water control, heating, air conditioning, ventilation, lighting, electrical, mechanical, fire and acoustic systems with the environment, environmental comfort, design, technology and building, and to convey the relevant issues through theoretical and practical explanations.				
Course Content	This course contains;				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
It is aimed to be conveyed through theoretical and practical lectures on "physical environmental control, water control, heating, air conditioning, ventilation, lighting, electrical, mechanical, fire, acoustic systems" with by connecting relationship with environment, climate, environmental comfort, design, technology, building and structure.			12, 18, 2, 6, 9	A, E	
Teaching Methods	12: Problem Solving Method, 18: Micro Teaching Technique, 2: Project Based Learning Model, 6: Experiential Learning, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam, E: Homework				
Lecture Schedule					
Sequence	Topics	Preliminary Preparation			
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
Evaluation Methods		Weight(%)			
Midterm Exam		50			
General Exam		50			

Resources	
<ol style="list-style-type: none"> 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), "Water, Sanitary and Waste Services for Buildings"; Butterworth-Heinemann. Schodek, D.L.; (2000), "Structures", Prentice Hall. Allen, E.; (2005), "How Buildings Work", New York, Oxford University Press. "Building design and construction handbook", McGraw-Hill Companies, Inc. 6th edition, (2001) Arphan, A.; (1975), "Yapı Tesisatı Bölüm 1", Devlet Güzel Sanatlar Akademisi. Alphan, A.; (1985), "Yapıda Sağlık Donatımı", İ.T.Ü. Matbaası. Küçükçalı, R.; (1999), "Mimarın Tesisat El Kitabı, İsisan Çalışmaları No:238", İsisan Yayınları. Küçükçalı, R.; (2008) "Mimarın Tesisat El Kitabı-Cilt 1-2", İsisan YayınlarıThe instructor provides the course notes lecturing during the lessons. 	