

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
ENVIRONMENTAL SYSTEMS: BUILDING DYNAMIC II	MIM3210059	Spring Semester	2+1	2,5	3
Prerequisites Courses	ÇEVRESEL SİSTEMLER: YAPIM DİNAMIĞI I				
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. Halit BEYAZTAŞ				
Assistant(s)	R.A Zübeyde Keskin				
Aim	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.				
Course Content	This course contains;				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
			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	
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, Isısan Çalışmaları No:238", Isısan Yayınları.	
Küçükçalı, R.; (2008) "Mimarın Tesisat El Kitabı-Cilt 1-2", Isısan Yayınları.	
Heerwagen, D., (2004) "Passive and Active Environmental Controls, McGrawHill".	
Brown, G.Z., De Kay, M., (2001) "Sun, Wind & 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&Company, New York.	
Long, M., (2013) "Architectural Acoustics", Academic Press.	
Maekawa, Z., Rindel, J.H., Lord, P., (2011) "Environmental and Architectural Acoustics", CRC Press.	