

# ADOBE MATERIAL AND THE APPLICATIONS OF ADOBE BUILDINGS

1	Course Title:	ADOBE MATERIAL AND THE APPLICATIONS OF ADOBE BUILDINGS
2	Course Code:	MIM3025
3	Type of Course:	Optional
4	Level of Course:	First Cycle
5	Year of Study:	3
6	Semester:	5
7	ECTS Credits Allocated:	3.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	0
11	Prerequisites:	-
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Doç.Dr. ZEHRA SEVGİN PERKER
15	Course Lecturers:	-
16	Contact information of the Course Coordinator:	zsperker@uludag.edu.tr
17	Website:	
18	Objective of the Course:	The aim of this course is to teach that Adobe construction materials, their properties, uses of the structure from past to present, studies aimed at improving the building material of adobe, mud-brick structures, problems and solutions are produced with modern technology and the Anatolian architecture of adobe construction adobe structures and practices
19	Contribution of the Course to Professional Development:	This course contributes to professional development in maintaining the adobe building culture and designing sustainable buildings with adobe materials by providing recognition of adobe materials and adobe construction applications.
20	Learning Outcomes:	
	1	Teaching adobe construction material and adobe structures, from past to present mud-brick structures in the varying areas
	2	Teaching adobe used in buildings for the design, structural systems, detailing and materials and the comprehension of a holistic perspective relations
	3	Teaching Anatolian architecture of adobe construction, adobe structures produced with today's technology and be knowledgeable about the applications, adobe structures in terms of the physical environment and positive / healthy aspects
	4	Teaching the problems and solution methods for problems of adobe buildings, modern methods used in developing of mud-brick material
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21	Course Content:			
	Course Content:			
Week	Theoretical	Practice		
1	Adobe construction material definition, classification, types of production methods, properties, relevant standards			
2	Mud-brick structures, uses and usage patterns in the historical process of building material			
3	Classification of adobe structures in Anatolia			
4	Adobe buildings in Anatolia, design, structural systems, detailing the application and the material properties			
5	Adobe buildings in Anatolia, design, structural systems, detailing the application and the material properties			
6	Adobe buildings in Anatolia, design, structural systems, detailing the application and the material properties			
7	Adobe buildings in Anatolia, design, structural systems, detailing the application and the material properties			
8	World examples of adobe construction, design, structural systems, detailing the application and the material properties			
9	World examples of adobe construction			
Activites		Number	Duration (hour)	Total Work Load (hour)
Theoretical	in adobe buildings	14	2.00	28.00
Practicals/Labs		0	0.00	0.00
Self study and preparation	Practice of adobe building material and	14	2.00	28.00
Homeworks		1	20.00	20.00
Projects		0	0.00	0.00
Field Studies		4	2.00	8.00
Midterm exams		1	3.00	3.00
Others		0	0.00	0.00
Final Exams	Textbooks, References and/or Other	Çelebi, R. (1979). Kerpiç Yapım Yöntemleri ve Kullanımı	3.00	3.00
Total Work Load				93.00
Total work load/ 30 hr		Eriç, M., (1994). Yapı Fiziği ve Malzemesi, Literatür		3.00
ECTS Credit of the Course				3.00
		Stabilize Edilen Kerpiç – Alker Yapılar, İTÜ Yayınları, İstanbul. Kömürcüoğlu, E. A. (1962). Yapı Malzemesi Olarak Kerpiç ve Kerpiç İnşaat Sistemleri, İTÜ Yayınları, İstanbul.		
23	Assesment			
TERM LEARNING ACTIVITIES		NUMBE R	WEIGHT	
Midterm Exam		1	20.00	
Quiz		0	0.00	
Home work-project		1	20.00	
Final Exam		1	60.00	
Total		3	100.00	

Contribution of Term (Year) Learning Activities to Success Grade	40.00
Contribution of Final Exam to Success Grade	60.00
Total	100.00
Measurement and Evaluation Techniques Used in the Course	When the number of students is below 20, absolute evaluation is applied, and when the number of students is above 20, the relative evaluation system is used. Course success is evaluated through the midterm exam (test), final exam (test) and homework.

<b>24</b>	<b>ECTS / WORK LOAD TABLE</b>
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25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	5	5	0	0	2	0	0	0	0	3	4	0	0	0	0	0
ÖK2	5	5	0	0	4	0	0	0	0	3	4	0	0	0	0	0
ÖK3	5	5	5	0	2	0	0	0	0	5	4	0	0	0	0	0
ÖK4	5	5	0	0	2	0	0	0	0	5	4	0	0	0	0	0
LO: Learning Objectives    PQ: Program Qualifications																
Contribution Level:	1 very low		2 low		3 Medium		4 High		5 Very High							