



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Building Materials							
Course Code		MRP107		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	2	Workload	50 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		The building materials used in the construction industry, physical, chemical and understanding the technical properties, application areas and to teach instead of the proper material selection methods.							
Course Content		Cement, lime, gypsum, bitumen and special connectors, heavy, normal, light and special concrete, aggregates and additives, lumber, particleboard, plywood, laminates, brick, tile, brick, block and ceramics, paints, plastics, textiles paper, bitumen and tar cardboard, glass and teach the properties of insulating materials							
Work Placement		No							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Case Study					
Name of Lecturer(s)									

### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

### Recommended or Required Reading

1	ERİÇ, M., Yapı Fiziği ve Malzemesi, Litaratür Yayıncılık, İstanbul, 1994
2	ADAMS, E.C., Yapı Bilgisi, YÖK Yayını, 1993
3	KOCATAŞKIN, F., Yapı Malzemesi Dersleri, İTÜ Mühendislik Mimarlık Fakültesi Yayını, İstanbul, 1972.
4	KUBAN, D., Mimarlık Kavramları, Yapı Endüstri Merkezi Yayını, İstanbul, 1986
5	ŞİMŞEK, O., Yapı Malzemesi I, Ankara Üniversitesi Basımevi, Ankara, 2000.
6	ŞİMŞEK, O., Yapı Malzemesi II, Ankara Üniversitesi Basımevi, Ankara, 2000

Week	Weekly Detailed Course Contents	
1	Theoretical	The concept of building materials and general features.
2	Theoretical	Natural stones
3	Theoretical	binding agent
4	Theoretical	Structure problems with thermal and acoustic insulation details.
5	Theoretical	Problems and the details of the structure of water and fire insulation
6	Theoretical	Wall materials, internal and external finishing details.
7	Theoretical	Investigation of introduction and examples of adobe brick structure
8	Intermediate Exam	Midterm exam
9	Theoretical	Brick material and application.
10	Theoretical	Wood materials and use details
11	Theoretical	Examples of the use and structure of glass materials
12	Theoretical	The use of plastic materials and examples of structure
13	Theoretical	Concrete materials and application
14	Theoretical	Of the important buildings in the world, be examined in terms of construction materials
15	Theoretical	Of the important buildings in the world, be examined in terms of construction materials

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Midterm Examination	1	11	1	12



Final Examination	1	9	1	10
Total Workload (Hours)				50
[Total Workload (Hours) / 25*] = ECTS				2
*25 hour workload is accepted as 1 ECTS				

### Learning Outcomes

1	The bonding material may explain the features and usage.
2	You can explain the properties of concrete types and components.
4	They can explain the properties and uses of wood and wood products.
5	Paints, plastics, textiles, glass and explain the features and use of isolation material.
6	Metal may explain the various types of stone and PVC building materials and features.

### Programme Outcomes (Architectural Restoration)

1	The restoration, structural information, the matters required by the construction technology and infrastructure areas have sufficient theoretical and practical knowledge in this field and win.
2	Using the basic level of knowledge and skills acquired in the field, interpret and evaluate data, identify problems, analyze, would have the ability to develop solutions based on evidence.
3	Restoration terminology, values that protect the basic principles for the identification and protection purposes, the protection will have information about the evolution of understanding and methods.
4	The causes of deterioration tile works, to be implemented between the restoration and conservation methods and have the basic information about the techniques.
5	modern techniques required for applications related to the field, tools, and you can select and use information technology effectively.
6	Drawing to gain the perspective necessary, plans, sections, elevations, have knowledge about perspective drawings and descriptions, at various scales, section, learn how to view details and to review the project.
7	The concept of traditional crafts, periods, techniques, materials, and have knowledge about the historical development.
8	When faced with unforeseen situations in the field of application to produce solutions, won the individual to take responsibility in the team or work ability.
9	By using computer-related applications and commands used in the project drawings, studies measuring the output settings and make applications work on the plan.
10	Labor law and occupational safety, environmental protection and quality have the consciousness.
11	Archaeological research methods, have knowledge about excavation methods and types. drawing museum in presentation material examination of the legislation in the application of archeology and artifacts within the scope of the documentation and cataloging acquire knowledge and skills.
12	Survey, restoration, knows the basic principles and methods in restitution and conservation. The history of restoration and will have the necessary information about the current restoration techniques applied in the world.
13	building materials that are used in historical buildings, construction techniques, have a general knowledge about the causes of deterioration and preservation techniques.
14	Wood will have a basic knowledge of the causes of deterioration and take necessary protection methods.
15	on Traditional Turkish House Architecture; The origin of Turkish houses, regional specialties, plan types, building systems, construction materials, will have information about the features and facade decorations.
16	have knowledge about perspective drawings and descriptions, at various scales, section, learn how to view details and to review the project.
17	control services in buildings, unit price and description analysis, excavation, and will have information about transportation and accounting affairs.
18	He gains the ability to conduct research.
19	The creation of an architectural project and all the architectural layout of the project and learn the making of three-dimensional computer drawings of the visual.
20	They have to respect the historical value of professional ethics.

### Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L1	L2	L4	L5	L6
P1	5	5	5	5	5
P2	5	5	5	5	5
P3	3	3	3	3	3
P4	1	1	1	1	1
P5	3	3	3	3	3
P6	1	1	1	1	1
P7	2	2	2	2	2



P8	4	4	4	4	4
P9	1	1	1	1	1
P10	2	2	2	2	2
P11	1	1	1	1	1
P12	3	3	3	3	3
P13	5	5	5	5	5
P14	5	5	5	5	5
P15	4	4	4	4	4
P16	2	2	2	2	2
P17	1	1	1	1	1
P18	4	4	4	4	4
P19	1	1	1	1	1
P20	4	4	4	4	4

