



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Building Science II							
Course Code		MRP112		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	2	Workload	50 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		The definition of structural elements that sustain the structure and types of anlatmak.duv, columns, curtains, beams, provide information about the details of their arrangements with details incelemek.yapi protective insulation slabs and stairs. The roof, door, window details uygulamak.çağdaş structure system of folded plates, give examples of lattice systems with thin shells.							
Course Content		Structural systems and structures bearing structural systems, building elements, building roofs, doors, window elements of design principles, covers topics related to contemporary building systems and application techniques.							
Work Placement		No							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Case Study					
Name of Lecturer(s)		Lec. Esra AKSOY							

### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

### Recommended or Required Reading

1	ERTEN, E., Yapı Elemanları I-II Karadeniz Teknik Üniversitesi Basımevi , Trabzon, 1992
2	DEMİR, A; SOMÇAĞ, G., (1973) Yapı Bilgisi-I, A.D.M.M.A.Yapı Kürsüsü
3	ELDEM, S.H. Yapı, Birsen Kitabevi Yayınları, İstanbul
4	ERİÇ, M., (2002) Yapı Fiziği Ve Malzemesi, Literatür Yayınları, İstanbul.
5	KOLAY, İ.A., (1999)Batı Anadolu 14. Yüzyıl Beylikler Mimarisinde Yapım Teknikleri, Atatürk Kültür Merkezi Başkanlığı Yayınları, Ankara.
6	KUBAN, D., (1973) Mimarlık Kavramları, İ.T.Ü. Yayınları, İstanbul.

Week	Weekly Detailed Course Contents	
1	Theoretical	Brick wall weaves
2	Theoretical	According to the structure of the stone walls used in construction
3	Theoretical	The duties of flooring and flooring
4	Theoretical	Classification of Floor
5	Theoretical	According to the carrier material flooring
6	Theoretical	Floor types
7	Intermediate Exam	Masonry Construction Materials and Promotion Unit of Linker
8	Intermediate Exam	Midterm exam
9	Theoretical	Stairs constructions, balancing the staircase, wood-masonry and steel stairs
10	Theoretical	Roof and building types according to the material they are made
11	Theoretical	Covering Systems
12	Theoretical	Domes, arches and vaults construction techniques
13	Theoretical	Stairs construction
14	Theoretical	Joinery, windows and doors
15	Theoretical	Joinery, windows and doors

### 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	Explain conceptual and basic information about the concept of the formation of the carrier system
2	Explain general information about Structural systems.
3	It will evaluate the construction and material properties of masonry structures
4	The concept and basic elements of masonry, masonry construction techniques, explain the introduction of masonry unit wall construction techniques and materials and binders
5	Gain the ability to analyze the connection between spatial system and carrier structure.

### 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	L3	L4
P1	5	5	5	5
P2	5	5	5	5
P3	2	2	2	2
P4	1	1	1	1
P5	5	5	5	5
P6	2	2	2	2
P7	1	1	1	1



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

