

# BUILDING PRODUCTION AND TECHNOLOGIES

1	Course Title:	BUILDING PRODUCTION AND TECHNOLOGIES	
2	Course Code:	MIM3004	
3	Type of Course:	Compulsory	
4	Level of Course:	First Cycle	
5	Year of Study:	3	
6	Semester:	6	
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:	Prof. Dr. MURAT TAŞ	
15	Course Lecturers:	Yok	
16	Contact information of the Course Coordinator:	murattas@uludag.edu.tr 0224 2942137 U.Ü. Mühendislik Mimarlık Fakültesi Mimarlık Bölümü Nilüfer/ Bursa	
17	Website:		
18	Objective of the Course:	Students, for architectural services in the field of modern construction systems and technologies for use in analysis, synthesis, and deliver a level of knowledge to comment.	
19	Contribution of the Course to Professional Development:		
20	Learning Outcomes:		
		1	The concept of building production, building production systems, components and environmental factors, technological development and production characteristics of the production building to have a general knowledge about
		2	Architectural design, construction, earthquake, building production, and technologies to grasp relations
		3	Learn to building production technologies and solve problems in this area
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21	Course Content:		
		<b>Course Content:</b>	
Week	Theoretical	Practice	
1	General information about the course, basic concepts related to building production		

2	The concept of building production, building production systems, components and environmental factors, development of building production	
3	Characteristics of industrial production, construction production industrialization	
4	Architectural design-construction-earthquake-prefabricated construction systems and technologies, relations, classification of prefabricated building systems	
5	Improved traditional (rationalized) an overview of construction systems, Formwork systems basic features that should be	
6	Modern formwork techniques, Permanent formworks, removed-attached formworks	
7	Tunnel formworks, sliding-climbing formworks, blow formworks	
8	Industrialized building systems (prefabrication) overview, closed and open system concepts prefabrication	
9	Repeating courses and midterm exam	
10	Prefabricated frame systems-general definitions and system elements, and the composition of the cell systems-carrier basis points	
11	Prefabricated panel systems-general definitions and system elements, and the composition of the cell systems-carrier basis points	
12	Prefabricated cell systems-general definitions and system elements, and the composition of the cell systems-carrier basis points	
13	Design, production, storage, handling and assembly problems in prefabrication	
14	An overview of the course and the course evaluation	

22	Textbooks, References and/or Other Materials:	-Ayaydın, Yükselen, “Büyük Açıklıklı Prefabrike Betonarme Yapılar”, MSÜ, İstanbul. -Ching, Francis, “Building Construction Illustrated”, Van Nostrand Reinhold, New York. -Eser, Lami, “Endüstrileşmiş Yapım”, İTÜ, Mimarlık Fakültesi, İstanbul. -Koncz, Tihamer, “Prefabrikasyona Giriş-Endüstrileşmiş Yapı Üretimi”, Yapı Merkezi, İstanbul. -Sey, Yıldız, “Çağdaş Yapım Sistemleri”, İTÜ, Mimarlık Fakültesi, İstanbul. -Sey, Yıldız, Tapan Mete, “Türkiye’de Toplu Konut Üretiminde Kullanılan Yapım Sistemleri”, Tübitak.
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23	Assesment	
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TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Midterm Exam	1	25.00
Quiz	0	0.00
Home work-project	1	25.00
Final Exam	1	50.00
Total	3	100.00
Contribution of Term (Year) Learning Activities to Success Grade		50.00
Contribution of Final Exam to Success Grade		50.00

Total	100.00
Measurement and Evaluation Techniques Used in the Course	
<b>24</b>	<b>ECTS / WORK LOAD TABLE</b>

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	13	2.00	26.00
Homeworks	1	30.00	30.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	4.00	4.00
Others	0	0.00	0.00
Final Exams	1	4.00	4.00
Total Work Load			92.00
Total work load/ 30 hr			3.07
ECTS Credit of the Course			3.00

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