

# AGRICULTURAL STRUCTURES

1	Course Title:	AGRICULTURAL STRUCTURES	
2	Course Code:	BSM3534-Z	
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):	1.00	
9	Practice (hour/week):	2.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:	None	
12	Language:	English	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Prof. Dr. ERCAN ŞİMŞEK	
15	Course Lecturers:		
16	Contact information of the Course Coordinator:	e-posta : esimsek@uludag.edu.tr Telefon: 0 224 2941622 Adres: Uludağ Üniversitesi, Ziraat Fakültesi, Biyosistem Mühendisliği Bölümü, Görükle Kampusu, 16059, Nilüfer/BURSA	
17	Website:		
18	Objective of the Course:	This course aims to provide standard information for agricultural structural elements with the ability to design support.	
19	Contribution of the Course to Professional Development:		
20	Learning Outcomes:		
		1	Recognize the building and structural elements
		2	Evaluate the loads acting on the structure to the same standards
		3	Analyze the problems of sizing of structural elements
		4	Use information of any agricultural building project
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21	Course Content:		
		<b>Course Content:</b>	
Week	Theoretical	Practice	
1	Introduction, presenting the course, presentation of goals and objectives	The concept of structure, classification of structure	
2	Structural elements, classification of soils, the strength of the ground	Foundations, basic types and account, walls	
3	Masonry walls, stone and brick walls, design rules for load-bearing walls	Roofs, classification of roof, roof elements	

4	Element bearing forces in the axial direction	Tensile bars, pressure bars
5	Bending running bars	Example problems
6	Loads on structures	Wind load, snow load sample solutions
7	Design of roof basic principles	Projecting roof, rafters account
8	Projecting roof, beam account	Account of the roof truss
9	Sample solution	Sample solution continued
10	Quantities and estimated cost , unit prices	Estimated cost sample solutions
11	Determination of the estimated cost of the project	Quantities and estimated cost applications
12	Quantities and estimated cost applications	Quantities and estimated cost applications
13	Building projects, preparation of construction projects	Implementation of the agricultural construction projects
14	Bidding works	Supervision services

22	Textbooks, References and/or Other Materials:	1. Olgun, M.2013. Tarımsal İnşaat. Ankara Üniversitesi Ziraat Fakültesi Yayın No:1612, Ders Kitabı:564, 483s., Ankara 2. M. S. Güner ve A. Yüksel. 2001. Yapı Bilgisi. Aktif Yayınevi. Erzurum. 3. Özcan, K. 1992. Yapı. Duygu Büro, Ankara. 4. Y.Odabaşı. 2000. Ahşap ve Çelik Yapı Elemanları. Beta Basım Yayım. İstanbul. 5. İlhan Berktaş 2005. Betonarme I. Taşıma Gücü ve Kesit Hesapları..TMMOB İnşaat Müh. Odası İstanbul Şubesi. İstanbul.
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Activites		Number	Duration (hour)	Total Work Load (hour)
23	Theoretical Assessment	14	1.00	14.00
Practicals/Labs		14	2.00	28.00
Self study and preperation		12	1.00	12.00
Homeworks		3	5.00	15.00
Quiz		0	0.00	0.00
Projects		0	0.00	0.00
Field Studies		0	0.00	0.00
Final Exam		1	7.00	7.00
Midterm exams		1	1.00	1.00
Others		4	1.00	4.00
Contribution of Term (Year) Learning Activities to Final Exams		40.00	10.00	10.00
Total Work Load				90.00
Contribution of Final Exam to Success Grade		30.00		3.00
Total work load/ 30 hr				3.00
ECTS Credit of the Course				3.00
Measurement and Evaluation Techniques Used in the Course				

24	ECTS / WORK LOAD TABLE
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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	3	3	4	3	4	3	3	4	3	4	2	0	0	0	0	0
ÖK2	4	3	3	3	4	4	2	4	3	3	3	0	0	0	0	0
ÖK3	4	4	4	3	5	3	2	4	3	4	3	0	0	0	0	0

ÖK4	4	3	3	3	4	4	3	4	3	3	3	0	0	0	0	0
LO: Learning Objectives    PQ: Program Qualifications																
Contrib ution Level:	1 very low		2 low		3 Medium		4 High		5 Very High							