Course Syllabus

Code - Course Title	**TRM211U - Farm Structures and Irrigation**
Course Type	III. SEMESTER
Laboratory + Practice	0+0
ECTS	**4.0**
Language of Instruction	Türkçe
Course Type	Required Courses
Course Instructor(s)	LECTURER DR. ÖMER KORAY YAYLACI

Mode of Delivery	Distance Education
Prerequisites	There is no prerequisite or co-requisite for this course.
Courses Recomended	N/A
Recommended Resources	Olgun, M. ve Demir, A.O. (Eds.) (2011). Tarımsal Yapılar ve Sulama. Anadolu Üniversitesi Yayın No:2269, Açıköğretim Fakültesi Yayın No:1266.Yücel E. (2010). Tıbbi ve Aromatik Bitkilerin Yetiştiriciliği. A.Ü.Yayın No. 2101, Anadolu Üniversitesi Yayınları, Web-Ofset Tesisleri, Eskişehir, 241 sayfa, ISBN 798-975-06-0782-0, Eskişehir.
Work Placement	N/A

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Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Water Resources and Management Giriş Su Çevrimi Dünyadaki Su Dağılımı Türkiye'deki Su Kaynakları Su Kaynaklarının Sektörel Kullanımı Su Kalitesi Ve Yönetimi	
Week - 2		Water Uptake in Plants-I Introduction Basic concepts Water Uptake in Plants	
Week - 3		Water Uptake in Plants-II Transport of Water in Plants Water Loss in Plants Water Adaptations in Plant	
Week - 4		Water Stress and Drainage in Plants -I Introduction The Concept of Stress in Plants Classification of Factors Causing Stress in Plants Causes of Water Stress in Plants: Drought and Flood Effect Drought Stress in Plants	
Week - 5		Water Stress and Drainage in Plants-II Negative Effects of Water Stress (Drought) on Plants Adaptations Developed by Plants Exposed to Water Stress. Stress Due to Excess Water in Plants Stress Due to Salinity in Plants Drainage in Agricultural Fields	
Week - 6		Climate Change, Drought and Desertification Introduction Climate, Climate Change, Greenhouse Effect Definitions, Concepts and Distinctions Soil and Land Degradation Effects of Global Warming and Climate Change on Ecosystems Ipcc (Intergovernmental Panel on Climate Change), Framework Convention on Climate Change and Kyoto Protocol Measures to be Taken for Global Warming and Climate Change	
Week - 7		Midterm	

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Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 8		Field Crops, Water and Irrigation-I Introduction General Characteristics of Field Crops Field Crops, Water And Irrigation Efficiency of Irrigation in Field Crops	
Week - 9		Field Crops, Water and Irrigation-II Plant Irrigation Systems Applied in Field Crops Irrigation Water Quality, Soil Properties and Effects on Plant Health Application of Irrigation Systems in Greenhouses	
Week - 10		Aquatic Plants and Aquatic Cultures Introduction Aquatic Plants Ecology of Aquatic Plants Cultivation of Aquatic Plants Soilless Agriculture	
Week - 11		Basic Concepts: Air, water and soil pollution Introduction Pollution and Environment Air Pollution And Its Consequences Air Pollution Control Water Pollution And Its Consequences Control of Water Pollution Soil Pollution And Its Consequences Control of Soil Pollution	
Week - 12		Water and land consolidation-I Introduction History of Land Consolidation The Importance of Land Consolidation in Water Use Determination and Finalization of the Areas for Land Consolidation	
Week - 13		Water and land consolidation-II 225 / 5000 Çeviri sonuçları Explaining Land Consolidation to Our Stakeholders Land Consolidation Application Rural Area Arrangement within the Scope of Land Consolidation Land Distribution, Sale and Expropriation within the Scope of Land Consolidation	
Week - 14		Final Exam	

Learning Outcomes

#	Learning Outcome
1	Describes rural settelement types and properties
2	Lists structure and facilities that can be found in farm enterprises
3	Explains environmental conditions in agricultural structures
4	Expresses water resources and management
5	Explains soil, plant and water relationships
6	Interrelates plant water consumption and water requirements and calculate water amount to be applied and its intervals and time
7	Defines agricultural drainage and reclamation

Sustainable Development Goals

No content has been provided.

Course Theme

No content has been provided.

AKTS Workload

Activity	Duration (Hour)	Count	Workload
Teorik Derse Katılım	0	0	0
Sınıf Dışı Çalışma (Ön Hazırlık & Pekiştirme Amaçlı)	0	0	0
Ödevler	0	0	0
Proje - Rapor - Sunum Hazırlama	0	0	0
Ara Sınav Hazırlığı (sınav süresi dahil)	0	0	0
Final Sınavı Hazırlığı (sınav süresi dahil)	0	0	0
Uygulama (Laboratuvar, Müzik/Enstrüman Uygulaması, Atölye/Saha Çalışması vb.)	0	0	0
Staj Uygulaması	0	0	0
		Calculated ECTS	**0**

Assessment Method and Passing Requirements

No content has been provided.

Assessment Method and Passing Requirements	Quamtity	Percentage (%)
1.Midterm Exam	1	30
Final Exam	1	70
	Sum (%)	**100**