	Akdeniz University 2021-2022 Spring Semester List of Courses										
Course Code	ECTS	Course Title	Content	Faculty	Department	Lecturer (s)	Online Available				
	6		Content 1. General State of general greenhuse production aroud the world, vegetables produce, market evaluation, trends, 2. Greenhouse Environment Effect of temperature, CO2, light and all other climate and environmental parameters in detail on the yield and productivity of crops gron in greenhouses. Classification of greenhouses according to the control levels of these variables. 2. Greenhouse Structures Greenhouse(plastic, glasss) structural elements, steel, aluminum, load characteristics, design data, specs, orientation, considerations before investments, 3. Greenhouse heating Surface area calculation, Heat requirement calculation, heating system design, Hot water heating, hot air heating, solar heating and other alternative heating methods, boilers, buffer tank and working principles, zoning, 4. Greenhouse Cooling Heat load calculation, active cooling, passive cooling, alternative sooling methods, use of physcrometric chart, high/low pressure fog systems, 5. Greenhouse Irrigation	Faculty Faculty of Agriculture	Agricultural Machinery and Technology Engineering		Availabl				
			Irrigation system capacity calculation, lines, drippers, water tanks, pump capacities, valving, dosaging unit principles, autoamtion principles, light-dependent irrigation, NFT and Aeroponics, applications, trends. 6. Thermal and shading screens Affect on heating and cooling, how to calculate energy savings, types of textiles and mechanisms used, planning, zonning, elements of the system, 7.CO2 dosaging system CO2 tank and principles, CO2 line design, dosaging principles, management of crop through CO2. 8. Artificial Lighting Use of artificial lights to increase yield, calculation principles, LED lights and their use, indoor farming, 9. Crop care and harvest technologies Battery carts, sprayers, packing lines and all other related post harvest technologies 10. Cold storage design The size and capacities of cold storages, necessary materials and equipments 11. Greenhouse materials All materials and machinery used during and after the production in greenhouses.								

TMB5054		UNIVERSAL PRINCIPLES OF DESIGN	A deeper understanding of human behaviour and a scholarly approach to design are the main focus of this course.	, 0	Agricultural Machinery and Technology Engineering	Doç. Dr. H.Kürşat ÇELİK	Online
	6		A designer interested in learning about other areas of specialization would have to study texts from many different design disciplines. Determining which texts in each discipline				
TMB5051		COMPUTER AIDED DESIGN	Computer-aided design (CAD) is the use of computers to aid	Faculty of Agriculture			
	6		in the creation, modification, analysis, or optimization of a		Agricultural Machinery and Technology Engineering	Doç. Dr. H.Kürşat ÇELİK	Online
			design. CAD software is used to increase the productivity of				
			the designer, improve the quality of design, improve				
TMB5053		ESSAY WRITING AND GRAMMAR	Basic conventions of academic writing	Faculty of Agriculture			
			2. Basic grammatical concepts				
	6		3. Putting sentences together		Agricultural Machinery and Doç. Dr. H.Kürşat Çt Technology Engineering	Doç. Dr. H.Kürşat ÇELİK	K Online
			4. Putting paragraphs together				
			5. Critical thinking and referencing				