

COURSE LIST

Faculty of Agriculture

(Please note that Erasmus students are allowed to take courses from lists of all faculties/schools according to their needs or interests.)

Course Code	Course Title	ECTS Credit	COMU Credit	Lecturer
ULP-06-005	Grapevine Growth and Physiology	4	3	Assoc. Prof. Dr. Zeliha GÖKBAYRAK
ULP-06-007	World Viticulture	4	3	Assoc. Prof. Dr. Zeliha GÖKBAYRAK
ULP-06-008	Growing Fruit	7.5	3	Assist. Prof. Dr. Hakan ENGİN
ULP-06-009	Physiological Disorders in Fruits	7.5	3	Assist. Prof. Dr. Hakan ENGİN
ULP-06-10	Plant Breeding	4	3	Assist. Prof. Cem Ömer EGESEL
ULP-06-11	Plant Stresses	4	3	Prof. Dr. Hakan TURHAN
ULP-06-12	Animal Biotechnology	4	3	Assist. Prof. Dr. Hanife GENÇ
ULP-06-13	Plant Tissue Culture Techniques	4	3	Prof. Dr. Hakan Turhan
ULP-06-15	Remote Sensing	4	2	Prof. Dr. Levent Genç
ULP-06-16	Agricultural Structures	4	2	Assoc. Prof. Dr. Ünal Kızıl
ULP-06-17	Greenhouse Planning and Management	4	2	Assoc. Prof. Dr. Ünal Kızıl
ULP-06-18	Design of Pressurized Irrigation Systems	4	2	Assoc. Prof. Dr. Murat Yıldırım
ULP-06-19	Basic Principals of Electricity and Electronics	4	2	Assoc. Prof. Dr. Murat Yıldırım
ULP-06-20	Computer - Assisted	4	2	Assoc. Prof. Dr. Murat Yıldırım

Course Code	ULP - 06 - 005
Name of the course in English	Grapevine Growth and Physiology
Name of the course in Turkish	Asma Buyume ve fizyolojisi
Language of the course	English
Level of Course	Bachelor's / Undergraduate
Lecturer	Assoc. Prof. Dr. Zeliha GÖKBAYRAK
ECTS Credits	4
COMU Credits	3
Description	General information on Grapevine's biology, physiology, growth and development, vineyard establishment, harvest and post-harvest.

Course Code	ULP - 06 - 002
Name of the course in English	World Viticulture
Name of the course in Turkish	Dunya Bagciligi
Language of the course	English
Level of Course	Bachelor's / Undergraduate
Lecturer	Assoc. Prof. Dr. Zeliha GÖKBAYRAK
ECTS Credits	4
COMU Credits	3
Description	Study of diversity of viticulture, both geographical and historical. History of grape growing and its spread throughout the world will be covered, along with discussions of current viticulture practises in different parts of world.

Course Code	ULP – 06-008
Name of the course in English	Growing Fruit
Name of the course in Turkish	Meyve Yetiştiriciliği
Language of the course	English
Level of Course	Bachelor's / Undergraduate Master
Lecturer	Assist. Prof. Dr. Hakan ENGİN
ECTS Credits	7.5
COMU Credits	3
Description	Growing Fruit is divided into four major sections. The first deals with the practical aspects of fruit growing, from tools and equipment to planning the fruit garden. The second section concerns all soft fruits. In the third section of the lecture tree fruits, which are slow to bear fruit have a longer fruiting season, are discussed in detail and information is given about fruit growing and storage. There is also pollination of different tree fruits. The fourth section covers warm temperature fruits and the less known kiwi fruits.

Course Code	ULP – 06-009
Name of the course in English	Physiological Disorders in Fruits
Name of the course in Turkish	Meyvelerde Fizyolojik Bozukluklar
Language of the course	English
Level of Course	Bachelor's / Undergraduate Master
Lecturer	Assist. Prof. Dr. Hakan ENİN
ECTS Credits	7.5
COMU Credits	3
Description	This lecture is a description of physiological disorders, seen on fruits such as cherry, sour cherry, peach, nectarine, plum and apricot. The most common physiological disorders seen on fruit are double or twin fruit, fruit cracking, split and shattered pits, cleft sutures, buttons, blind wood, bud drop, delayed flowering and foliation, internal breakdown, surface pitting and bruising and skin discoloration. This lecture also explains their causes and suggests the possible management strategies to minimize them.

Course Code	ULP – 06-010
Name of the course in English	Plant Breeding
Name of the course in Turkish	Bitki Islahı
Language of the course	English
Level of Course	Bachelor's / Undergraduate
Lecturer	Assist. Prof. Cem Ömer EGESSEL
ECTS Credits	4
COMU Credits	3
Description	This course targets to teach how to apply genetic principles to plant breeding, have students understand tools used by plant breeders, and plant breeding methods used in different plant species that have economic importance in world agriculture. Topics such as importance and working areas of plant breeding, effects of pollination type on selection methods, types of gene action, and advances in plant breeding are discussed throughout the semester.

Course Code	ULP – 06-011
Name of the course in English	Plant Stresses
Name of the course in Turkish	Bitki Sresleri
Language of the course	English
Level of Course	Bachelor's / Undergraduate
Lecturer	Prof. Dr. Hakan TURHAN
ECTS Credits	4
COMU Credits	3
Description	Environmental stresses such as salinity, drought, heat, cold, soil, water and atmospheric pollution are major constraints in agriculture, especially plant production. This course includes description of the major environmental stresses, their effects on plant growth and physiology, crop cultivation strategies under stressed conditions, plant breeding and development of stress tolerant plant varieties.

Course Code	ULP – 06-012
Name of the course in English	Animal Biotechnology
Name of the course in Turkish	Hayvan Bioteknolojisi
Language of the course	English
Level of Course	Bachelor's / Undergraduate
Lecturer	Assist. Prof. Dr. Hanife GENC
ECTS Credits	4
COMU Credits	3
Description	Animal Biotechnology is the application of scientific and engineering principles to provide new tools for improving human health and animal health and welfare and increasing livestock productivity. It is also include generation of transgenic animals, transgenic fish or transgenic insects using gene transfer technology to produce sterile insects, knockout technology to generate animals in which a specific gene has been inactivated, production of nearly identical animals by somatic cell nuclear transfer (clones)

Course Code	ULP – 06-013
Name of the course in English	Plant Tissue Culture Techniques
Name of the course in Turkish	Bitki Doku Kültürü Teknikleri
Language of the course	English
Level of Course	Bachelor's / Undergraduate
Lecturer	Prof. Dr. Hakan Turhan
ECTS Credits	4
COMU Credits	3
Description	The course covers several topics such as tissue culture

and its history, plant tissue culture laboratories, aseptic techniques and sterilization methods, organogenesis, root and shoot cultures, cell and protoplast cultures, haploid plant production, somatic embryogenesis, plant tissue culture in plant breeding.

Course Code	ULP – 06-015
Name of the course in English	Remote Sensing
Name of the course in Turkish	Uzaktan Algilama
Language of the course	English
Level of Course	Bachelor's / Undergraduate
Lecturer	Prof. Dr. Levent Genç
ECTS Credits	4
COMU Credits	2
Description	Getting information about shapes, locations of objects on the earth by using remote sensing data. A brief history of Remote Sensing; data structure, force of visual discrimination; basic image processing analyst; image enhancement; methods of remote sensing; used variables in visual and digital methods; projects flow schmas; remote sensing satellites; interaction between electromagnetic spectrum and material in remote sensing; spectrum reflection values of materials; assesment software and harware; obtaining methods for colored value; obtaining screen image; statistical analyst methods; radiometric and geometric adjustment; image enhancement, classification methods.

Course Code	ULP – 06-016
Name of the course in English	Agricultural Structures
Name of the course in Turkish	Sera Yapim Teknigi
Language of the course	English
Level of Course	Bachelor's / Undergraduate
Lecturer	Assoc. Prof. Dr. Unal Kizil
ECTS Credits	4
COMU Credits	2
Description	Students will be gain the knowledge and skills on importance of irrigation and its necessity; water-yield relationships; soil and water resources potential of Turkey and its sufficiency; water conveyance and delivery systems; irrigation water quality; drainage; irrigation methods, farmstead planning and design, control principles of indoor environment, planning and design rural houses, cattle, sheep, poultry houses, storage structures.

Course Code	ULP – 06-017
Name of the course in English	Greenhouse Planning and Manegement
Name of the course in Turkish	Sera Yapim Teknigi
Language of the course	English
Level of Course	Bachelor's / Undergraduate
Lecturer	Assoc. Prof. Dr. Unal Kizil
ECTS Credits	4
COMU Credits	2
Description	It is aimed that students to be gained knowledge on: historical development of greenhouse production in Turkey and other countries, importance of greenhouse prodcution in Turkish economy, physical environment that play major role as determinants of plant growth in greenhouse planning, greenhouse types and appropriate planning and design of different type of greenhouse. Calculation of heat and moisture balance, greenhouse ventilation, planning of greenhouse and construction elements and irrigation in greenhouse.

Course Code	ULP – 06-018
Name of the course in English	Design of Pressurized Irrigation Systems
Name of the course in Turkish	Basikli Sulama Sistemlerinin Tasarimi
Language of the course	English
Level of Course	Bachelor's / Undergraduate
Lecturer	Assoc. Prof. Dr. Murat Yıldırım
ECTS Credits	4
COMU Credits	2
Description	Designing the pressurized irrigation systems according to technical rules.

Course Code	ULP – 06-019
Name of the course in English	Basic Principals of Electricity and Electronics
Name of the course in Turkish	Elektrik ve Elektronigin Temel İlkeleri
Language of the course	English
Level of Course	Bachelor's / Undergraduate
Lecturer	Assoc. Prof. Dr. Murat Yıldırım
ECTS Credits	4
COMU Credits	2
Description	To learn basic rules of automation systems

Course Code	ULP – 06-020
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Name of the course in English	Computer - Assisted Design
Name of the course in Turkish	Bilgisayar Destekli Tasarım
Language of the course	English
Level of Course	Bachelor's / Undergraduate
Lecturer	Assoc. Prof. Dr. Murat Yıldırım
ECTS Credits	4
COMU Credits	2
Description	To learn drawing commands in AutoCAD programme.