









2023-2024 Academic Year List of Courses Offered in Foreign Language

2023-2024 Akademik Yılı Yabancı Dilde Açılacak Dersler Listesi

Faculty/Institute/Vocational School of/School of

......Fakültesi/Enstitüsü/MYO/Yüksekokulu

S.N	Department Bölüm	Course Code Ders Kodu	ECTS AKTS	Course Title <u>Dersin Adı</u>		Course Content Dersin İçeriği	Academic Staff Dersi Veren Öğretim Elemanı	Online Available Çevrimiçi
1	Horticulture	BBB 181	4 ECTS (2+2)	Biotechnology	Winter/ Spring	transgenic plants will also be discussed. At the end of course students students are going to be	Prof.Dr. A. Naci ONUS E-mail: onus@akdeniz.edu.tr Tel: 0090 242 310 24 41	No
2	Horticulture	IBBB 281	6 ECTS (3+0)	Horticulture	Winter/ Spring	Introduction to horticultural crops, classification and taxonomy, nutrients values on human health; the growing potential and economic importance of the horticultural crops in Turkey and in all over the world; the growing potential and crop designs of the regional horticultural crops; ecological requirements of the horticultural crops; biological features of the horticultural crops; propagation methods of the horticultural crops; the orchard establishment of the horticultural crops; annual cultivation practices of the horticultural crops; the harvest and storage techniques of the horticultural crops; good agricultural practices of the horticultural crops.	Prof.Dr. A. Naci ONUS E-mail: onus@akdeniz.edu.tr Tel: 0090 242 310 24 41	No

3	Horticulture	BBB 282	6 ECTS (3+0)	Principles of Vegetable Growing	Winter/ Spring	The concept of the course covers important commercial species, the systematic classification, ecological requirements, fundamental factors that are necessary for establishing the vegetable crops, pollination, fertilization fruit set, propagation techniques, cultivation practices affected fruit yield and fruit quality and harvest methods and growing potential of the vegetable crops either in greenhouse of open field conditions.	Prof.Dr. A. Naci ONUS E-mail: onus@akdeniz.edu.tr Tel: 0090 242 310 24 41	No
4	Horticulture	BBB 283	4 ECTS (2+0)	Genetics	Winter/ Spring	The aim of the course is to provide students with a strong background in the principles of Mendelian genetics. Students will become familiar with Mendel's basic	Prof.Dr. A. Naci ONUS E-mail: onus@akdeniz.edu.tr Tel: 0090 242 310 24 41	No
5	Horticulture	BBB 284	3 ECTS (2+0)	General Fruit Science	Winter/ Spring	The course encompasses information which includes, the history of fruit science, classification of World fruit species. General aspects of fruit sciece and farmingwill be	Îlhami TOZLU E-mail: itozlu@akdeniz.edu.tr Tel: 0090 242 310 37 35	No
6	Horticulture	BBB 381	4 ECTS (2+2)	Breeding of Horticulture Crops	Winter/ Spring	The course is aimed to: (i) understand the basic principles of genetics and molecular biology needed for modern plant breeding; (ii) comprehend the different selection and breeding processes and assess the advantages and drawbacks of each according to the horticulture crop species, the breeding objectives and the environmental conditions; (iii) learn how to integrate in a breeding program the conventional techniques and most up-to-date methods that contribute towards greater efficacy in the selection processes and in the development of new varieties; and (iv) design a breeding program for a given horticulture crop species.	Prof.Dr. A. Naci ONUS E-mail: onus@akdeniz.edu.tr Tel: 0090 242 310 24 41	No
7	Horticulture	BBB 481	6 ECTS (3+0)	Vegetable Growing-I	Winter/ Spring	General aspects of cool season vegetables; general aspects of compositae family and artichoke growing; amaryllidaceae family, onion growing; amaryllidaceae family, garlic and leek growing; liliaceae family, asparagus growing; chenopodiaceae family, spinach growing; brassicaceae (cruciferae) family, cabbage growing; brassicaceae (cruciferae) family, cauliflower growing; brassicaceae (cruciferae) family, broccoli growing; brassicaceae (cruciferae) family, radish, garden rocket growing; brassicaceae (cruciferae) family, brussels sprout growing; apiaceae (umbelliferae) family, carrot growing; apiaceae (umbelliferae) family, parsley, dill growing	Prof.Dr. A. Naci ONUS E-mail: onus@akdeniz.edu.tr Tel: 0090 242 310 24 41	No
8	Horticulture	BBB 482	5 ECTS (2+0)	Vegetable Breeding	Winter/ Spring	Description of vegetable breeding, aims and history, classification of vegetables and breeding gene resources, pollination mechanisms and techniques, introduction breeding methods, selection breeding methods, hybridization breeding methods, F1 breeding and heterosis, breeding of vegetables of different families	Prof.Dr. A. Naci ONUS E-mail: onus@akdeniz.edu.tr Tel: 0090 242 310 24 41	No
9	Horticulture	BBB 483	6 ECTS (3+0)	VEGETABLE GROWING -II	Winter/ Spring	General aspects of warm season vegetables; compositae family and lettuce growing; leguminosae (fabaceae) family, pea growing; leguminosae (fabaceae) family,	Prof.Dr. A. Naci ONUS E-mail: onus@akdeniz.edu.tr Tel: 0090 242 310 24 41	No
10	Horticulture	BBB 484	6 ECTS (3+0)	Genetic Improvement of Horticulture Plants	Winter/ Spring	Genetic enhancement of crop value to humans began with domestication and continues with farmers' variety development and scientifically trained plant breeders'	Prof.Dr. A. Naci ONUS E-mail: onus@akdeniz.edu.tr Tel: 0090 242 310 24 41	No

11	Horticulture	BBB 485	6 ECTS (3+0)	Horticultural Systems	Winter/ Spring	Science and technology of horticultural plants grown for foods and ornamental, purposes. Lectures, labs, and field trips involve natural history and evolution of horticultural plants, botany and physiology, sustainable management of soil, water and plant nutrition, breeding and propagation, ecological functions, and integrated design and management of horticultural plantings and production systems	Prof.Dr. A. Naci ONUS E-mail: onus@akdeniz.edu.tr Tel: 0090 242 310 24 41	No
12	Horticulture	BBB 486		Physiology and Development of Plants in Horticulture	Winter/ Spring	Protected horticulture depends on modifying the physical environment of an enclosed space so as to improve the growth and quality of plants. The course comprises advanced plant physiology and developmental biology described in relation to the production of plants, cut flowers, fruits, etc under protected cultivation. The physiological content emphasizes plant responses to the environment, such as photosynthesis, temperature stress, water relations etc. The developmental content deals with plant propagation techniques, flower induction and development, plant morphological control etc.	Prof.Dr. A. Naci ONUS E-mail: onus@akdeniz.edu.tr Tel: 0090 242 310 24 41	No
13	Horticulture	BBB 487	6 ECTS (3+0)	Biotechnology of Horticultural Crops	Winter/ Spring	The first set of lectures outlines the techniques used in Plant Biotechnology and in the second set, specific examples of application of these techniques and the effects on science and society are provided. Guest lectures will be provided on Entrepreneurship in Plant Biotechnology. During the course a plant biotech company will be visited. Various techniques will be taught during course. Throughout the course period, students will work on an assignment focusing on one particular plant biotechnology case, which requires searching for and understanding of recent scientific literature. The results of this case study will be presented at the end of the	Prof.Dr. A. Naci ONUS E-mail: onus@akdeniz.edu.tr Tel: 0090 242 310 24 41	No
14	Horticulture	BBB 488	6 ECTS (3+0)	Vegetable Seed Technology	Winter/ Spring	During the course basic seed technological knowledge is provided, including vegetable seeds dormancy, seed quality, seed development, storage and quality improvement methods and ecological factors on vegetable seed production.	Prof.Dr. A. Naci ONUS E-mail: onus@akdeniz.edu.tr Tel: 0090 242 310 24 41	No
15	Horticulture	BBB 489	6 ECTS (3+0)	DNA Fingerprinting Methods of Horticultural Crops	Winter/ Spring	Some of the factors that limit the progress of plant breeding can be overcome or achieved more rapidly by utilising plant biotechnology including the DNA fingerprinting	Prof.Dr. A. Naci ONUS E-mail: onus@akdeniz.edu.tr Tel: 0090 242 310 24 41	No
16	Horticulture	BBB 490	6 ECTS (3+0)	Recent Developments in Vegetable Growing	Winter/ Spring	In a comparision to other crops vegetable industry has a highly dynanmic system and many developments take place in each year within the vegetable industry. Therefore the main objective of the course is to raise students aware of the these dynamic systems and get familiar with recent developments. Developments and changes take place in vegetable production areas, vegetable production systems, recently developed cultivars and their main features, recent developments take place in vegetable seed industry and vegetable seedling industry as well as seedlings.	Prof.Dr. A. Naci ONUS E-mail: onus@akdeniz.edu.tr Tel: 0090 242 310 24 41	No
17	Horticulture	BBB 491	6 ECTS (3+0)	Genetic Resources and Preservation of Horticultural Crops	Winter/ Spring	Description of plant genetic resources, distrubution of plant genetic resources all around the world, center of origins, genetic resources erosion, finding, collecting and preservation of genetic resources of horticultural crops, storage of genetic resources and recording	Prof.Dr. A. Naci ONUS E-mail: onus@akdeniz.edu.tr Tel: 0090 242 310 24 41	No

18	Horticulture	BBB 492		Genome and Genome Analysis of Horticultural Crops	Winter/ Spring	To provide basic information about the genome of horticultural crops is the main objective of the course. Another objective of the course is to teach the students how one can use the results of genome analysis results for horticultural crops. Although genome term has been known for a lon time, genomic term is rather new term. Genomic term first time was used in 1986. Genomic term is used for genome mapping, sequencing and characterization. Within this context genomic term can be divided into 3 different parts: 1. Functionasl genomics, 2. Structural genomics and 3. Comparative genomics. Within this course genome, genome analysis and genome structures issues are discussed within the horticultural crops	Prof.Dr. A. Naci ONUS E-mail: onus@akdeniz.edu.tr Tel: 0090 242 310 24 41	No
19	Horticulture	BBB 493	10 ECTS	Traineeship	Winter/ Spring	Growing, cultivation and breeding studies of vegetable crops, obtaining haploid plants and the use of molecular markers on improvement of vegetable crops	Prof.Dr. A. Naci ONUS E-mail: onus@akdeniz.edu.tr Tel: 0090 242 310 24 41	No
20	Horticulture		4 ECTS (2+0)	Ornamental Plants	Spring	The aims of this course are to give an overvies of the ornamental plants and turfgrasses including plant selection, planting, mulching, mowing/pruning, fertilization techniques, and irrigation.	Prof.Dr.Songül SEVER MUTLU songulmutlu@akdeniz.edu.tr Tel:0(242)3102455	No
20	Horticulture	BBB 494	6 ECTS (2+2)	Citriculture	Winter/ Spring	Thiscoursegives an verview about the Citrus production World wide and the Mediterranean Basin in Particular. Topics covered are: growingpotential, systematic classification, widely grown cultivars, morphological and biological features of Citrus species, propagation techniques and cultural practices. Rootstock and scion selection, andnurseries, orchard establishment crop production, crop health, economics of crop production and post harvestconsiderations. Students are also introduced in the World citrus market and its changes, and future expectations in Citrus production.	İlhami TOZLU E-mail: itozlu@akdeniz.edu.tr Tel: 0090 242 310 37 35	No
21	Horticulture	BBB 495	6 ECTS (2+2)	Temperate Fruits -I	Winter/ Spring	Principles of fruitproduction, emphasizing on temperate nut crops are the main subject of this course. Crops to be studied include almond, walnut, pistachio, hazelnut, chesnutetc. Within this course integrated management of temperate nut cropping systems including site selection, orchard establishment cultural and management practices, taxonomic classifications, physiological and environmental control of plant development will be covered.	İlhami TOZLU E-mail: itozlu@akdeniz.edu.tr Tel: 0090 242 310 37 35	No
22	Horticulture	BBB 496	6 ECTS (2+2)	Subtropical Fruits	Winter/ Spring	The course will emphasise on applied aspects of the physiological basis for horticultural practices used, and the practices of commercial subtropical fruit crop production (exceptforcitrus). Crops to be studied include olive, fig, pomegranate avocado, pecan, persimmon, carob, loquat, opuntia, date palm,etc. Subject matter will include applied crop physiology and production methods, morphological and biological features of species, propagation techniques, orchard establishment, and cultural practices. Inaddition, insect and disease management, soil science, hydrology, and genetics and plant breeding will be discussed.	İlhami TOZLU E-mail: itozlu@akdeniz.edu.tr Tel: 0090 242 310 37 35	No

23	Horticulture	BBB 497	6 ECTS (2+2)	L'Emperate Fruits -II	Winter/ Spring	Principles of fruit production, emphasizing on temperate fruit crops are the main subject of this course. Pome and stone fruits are the main fruit groups will be emphisized in the course. Crops to be studied include aple, pear, quince, cherry, peach, apricot, plumetc. Within this course integrated management of temperate fruit cropping systems including site selection, orchard establishment cultural and management practices, taxonomic classifications, physiological and environmental control of plant development will be covered. Recent development in orchards ystems, modern and intensive orchard establisment and managent (ferti-irrigation, pruning, training, harvesting etc.) will be the important part of this course.	Îlhami TOZLU E-mail: itozlu@akdeniz.edu.tr Tel: 0090 242 310 37 35	No
24	Horticulture	BBB 498			Winter/ Spring	The course introduces the student variety of basic knowledge on plant propagation and horticultural activities/techniques. Some emphasis is placed on the set-up and hands-on applications such as principles and practices of sexual and asexual plant propagation, become familiar with propagation tools, media, and propagation structures. Propagation methods covered are seeding, cuttings, layering, division, grafting, budding and micro-propagation. Horticultural techniques covered are soilless production systems, modern orchard establishment and management including intensive planting, various trellising, pruning and training. These horticulture techniques will be suitable /adaptable for use in diverse crop systems (orchard, landscape, home and veggie gardens, nursery and greenhouse).	İlhami TOZLU E-mail: itozlu@akdeniz.edu.tr Tel: 0090 242 310 37 35	No