



HUNGARIAN UNIVERSITY OF  
AGRICULTURE AND LIFE SCIENCES  
INSTITUTE OF HORTICULTURAL  
SCIENCES

1118 Budapest, Villányi str. 29–43.

Subject	Code	Course code	Credits	Description	Level
Gyümölcsfajta-értékelés / Evaluation of Fruit Cultivars	KERTU041N	BUD-N- EN=MKER3=EL00	3	The subject covers the most important fruit species and varieties of temperate fruit orchards. An introduction on the methods of breed evaluation. The topic includes various gene sources, breeding trends, and the latest results of domestic and international breeding. Students will learn about the biological and technological basics of breeding for proper pollination. They get an idea of the currently dominant fruit varieties and the possibilities of renewing the variety assortment.	MSc
Gyümölcsök poszt-harvesz életana és technológiája / Post Harvest Physiology and Technologies of Fruit Species	KERTU142N		3	This is an English language facultative subject in the spring semester. The students receive information about the post-harvest processes of different fruit species: sorting, grading , modern storage technologies (CA and ULO)	BSc /MSc
Gyümölcsstermesztés / Fruit production	KERTU043N	BUD-N- EN=BKER4=EL00 + BUD-N- EN=BKER4=GY01 +BUD-N- EN=BKER4=TE01	4	Introduction of fruit growing forms. Aspects of site selection for commercial fruit production. Elements and concept of system. Description of the elements of integrated cultivation technology. Presentation of species-specific cultivation technologies.	BSc

Korszerű gyümölcsstermesztés élettani alapokon / Modern Fruit Growing Based on Physiology	KERTU061N	BUD-N- EN=MKER2=EL00 + BUD-N- EN=MKER2=GY01 + BUD-N- HU=MKER2=TE01	4	The students acquire the theoretical knowlegbes of modern growing technology. They get the basics to be able to modernize and develop the technological processes of fruit growing themselves. The knowledge is related in a complex way to the physiological, biochemical and technical academiaan subjects. The subject is containing details of the planning process of fruit plantations, the characteristics of training systems, technology operations, as well as the situation and development possibilities of growing of temperate zone fruit species.	MSc
Zöldségtermesztés/Vegetable production	KERTU088N	GOD-N- HU=BMGM4=EL00 + GOD-N- HU=BMGM4=GY01	3	The subject deals with the bases of vegetable production, like present situation of the vegetable industry, classification and environmental requirements of vegetable crops, general technology of vegetable technology with special reference to propagation. Detailed production technologies of the different vegetable groups (like processing vegetables, alliums, cole crops, root vegetables, leafy vegetables, solanaceous vegetables, cucurbits) are also addressed. Students also can gather first-hand knowledge about greenhouse technology and propagation, irrigation, fertigation, soilless production, mulching, harvest and post-harvest of vegetable crops during field practices.	BSc
Talajnélküli hajtás és zöldség fajtahasználát/ Forcing in Soilless Systems and Cultivar Use	KERTU080N	BUD-N- EN=MKER2=EL00 + BUD-N- EN=MKER2=TE01	4	During the course of the subject, the reasons for the development of soilless cultivation and the hydroculture systems used in practice will be explained. Cultivar use of peppers, tomatoes, cucurbits and their soilless cultivation technologies will be discussed, as well as the hydroponic cultivation of strawberries and ornamental plants	MSc

Zöldségtermesztés alapjai/ Introduction to Vegetable Production	KERTU089N	BUD-N- EN=BKER4=EL00 + BUD-N- EN=BKER4=GY01 + BUD-N- EN=BKER4=TE01	4	In the framework of the subject, students will learn about the most important basic knowledge required for vegetable cultivation. The general ecological and economic conditions necessary for cultivation are explained, as well as the knowledge materials necessary for harvesting and processing vegetable products. By completing the subject, the student learns the basic principles of growing vegetables on vegetable farms for both open-field and greenhouse farming.	BSc
Gyógy- és fűszernövényismeret/Medicinal Plants and Spices	KERTU029L	BUD-N- EN=BKER4=EL00 + BUD-N- EN=BKER4=GY01 + BUD-N- EN=BKER4=TE01	4	The main purpose of the course is to introduce the students into the general aspects of the medicinal plant production systems and to provide specific knowledge in the fields of wild-growing and exotic medicinal plants and spices. Beside the theoretical knowledge, practical skills are also demonstrated. The most important medicinal plant species, their drugs, active substances and application areas (phytotherapy, healing cosmetics, dietary supplements) are included as subjects of the lectures and practical parts of the course. Concerning the production systems of medicinal plants, students will get acquainted with general aspects of collection from wild habitats, cultivation, primary processing procedures, trade, quality control and quality assurance systems (GACP, GMP, etc).	BSc

Cultivation and Processing of Medicinal Plants (Gyógynövények termesztése és feldolgozása)	KERTU141N	BUD-N-EN=C-SUBJECT=LE00 + BUD-N-EN=C-SUBJECT=PR01	3	Medicinal plants play an important role in our life. We are using them day by day sometimes even not recognizing how they are influencing us. Sometimes we are using them in a fresh form, we can prepare a tea from peppermint leaves or we can use the basil leaf as a spice. However, the medicinal plants are used mainly in a processed form. The aim of processing is double: we have to preserve the active ingredient content but we also have to store this plant material for a longer time. The aim of the course is to get to know the general cultivation techniques of different medicinal plants and to understand the primary processing possibilities.	BSc
Korszerű gyógynövénytermesztési ismeretek/Up-to-date Technologies of Medicinal Plant Production	KERTU060N	BUD-N-EN=MKER2=EL00 + BUD-N-EN=MKER2=GY01 + BUD-N-EN=MKER2=TE01	4	Biological bases of medicinal plant production, effective forms of small and large scale production are demonstrated. Intensive and extensive growing systems as well as climatic and soil conditions, agroecological potential of growing sites, influencing medicinal crop production are also part of the teaching program. Propagation and other elements of growing technologies specified for medicinal plant production, new fertilizers, growth regulators and pesticides licensed for medicinal plant cultures are also presented. Modern harvesting technologies and post harvest treatments, quality assurance and standards of medicinal plant production are included as well.	MSc
Termelő ökoszisztémák működése, szabályozásuk formái/Production Ecosystems and Forms of their Regulation	KERTU081N	BUD-N-EN=MKER4=EL00	3	In the frame of the course, students will learn about the production systems in which the production of horticultural species is currently running. The topic covers the evaluation of environmental factors (light, temperature, water, soil, nutrient supply and biotic factors) acting in production systems.	MSc