Title	Geobotany and plant ecology		
Code	3NT20NAK08M		
Prerequisites	Plant Systematics		
Description	In the frame of this course students will get acquinted with the floral diversity of the world, with the main floristical, chorological aspects and natural distribution of plant species, the origin and evolution of cultivated plants. Lectures will enlighten the historical background and anthropogenic impact of the changing diversity on the mainlands. Lectures are dedicated for the main aspects of population ecology of plants, traits of plant populations and their behaviour, dispersal, migration, life strategies. How plant species are able to adapt to the changing environment and what are the main mopho-anatomical and phenological aspects of ecological adaptations. Lecture will focus also on the population relationships within the ecosystems and on the basis of community organisation including aspects of natural succesion, how population relationships progress within the horticultural systems how can be degradation avoided.Finally, the course will summaries the most important ecological features of the sustainable horticulture in the time of the ongoing environmental change.		
Lecturer	Maria Höhn associate professor CSc, Dr. Zsolt Erős-Honti		
Semester		***Contact hours/week***	2+1
Level	MSc	**ECTS**	3
Teaching and Learning Methods:	field practice		
Reading:	**Compulsory literature:** - Höhn M. (2013): Botany V-X chapters In: Éva Németh-Zámbori, Szilvia Sárosi, Levente Horváth: Modern Horticulture, Corvinus University of Budapest, Fac. of Horticultural Science. (ISBN 978-963-503-552-6) - Erős-Honti Zs. (2013): Botany I-IV chapters In: Éva Németh-Zámbori, Szilvia Sárosi, Levente Horváth: Modern Horticulture, Corvinus University of Budapest, Fac. of Horticultural Science. (ISBN 978-963-503-552-6) **Recommended literature:** - Ricklefs, R.E. - Miller, G.L. (2000): Ecology. W.H. Freemann and Company, New York, USA. (ISBN 978-0716728290) - van der Maarel, E. (2006): Vegetation ecology. Blackwell publishing.(ISBN 978-0-632-05761-0)		
Assessment:	• written test paper • tematic persentation		