

Title	Production ecosystems and forms of their regulation		
Code	3ME13NAK08M		
Prerequisites			
Description	Role of producent organisms in biomass production. Natural systems of biomass production (collection from the wild habitats) and artificial systems (cultivation in agrarian systems). Principles of their functioning, similarities and differences in energy flow. Quasi-natural systems. Role of different factors influencing the biomass production and its efficacy. Physical and biological (plant, animal, human) effects and interactions. Methods and possibilities of regulating production ecosystems under different circumstances (open field, covered surfaces).		
Lecturer	Dr. Jenő Bernáth, Dr. Krisztina Szabó PhD, dr. Zsuzsanna Pluhár, PhD, dr. Péter Radácsi, PhD		
Semester	3rd, fall	Contact hours/week	2+1
Level	MSc	ECTS	3
Teaching and Learning Methods:			
Reading:	<p>Compulsory literature:</p> <p>The course material is provided for the students by the lecturers in electronic format.</p> <p>Recommended literature:</p> <p>- Hopkins, W. G., Hunter, N. P. (2003): Introduction to plant physiology (3rd ed). Ontario. John Wiley and Sons. ISBN: 9780471389156</p> <p>- Lange, O.L., Nobel, P.S., Osmond, C.B., Ziegler, H. (1983): Physiological plant ecology IV. Berlin. Springer Berlin Heidelberg. ISBN: 978-3-642-68158-5</p> <p>- Wink, M. (1999): Functions of plant secondary metabolites and Their Exploitation in Biotechnology. Blackwell Publisher. ISBN 9780849340864</p>		
Assessment:	<ul style="list-style-type: none"> • Exam • Elaborating a study of 3-4 pages on the chosen topic connected to the course profile 		