



TITLE OF THE COURSE:	AGROBIOLOGICAL POTENTIAL OF PLANTS
Course code:	AFŽMM001
Course group:	C
Faculty:	Agronomy
Study program:	Erasmus students
Level:	<i>Bachelor /<u>Master</u> / PhD</i>
Semester:	<i><u>Autumn</u> / Spring</i>
ECTS credits:	6
Language of instruction	English
Course lecturer/s:	Pavelas DUCHOVSKIS
Short course description:	To provide knowledge for master students about biological processes in cultural plants, formation of agrobiological potential and it's realization by technological tools in different ontogenetic stages; Biological peculiarities of different plant groups, their connection with the trends of crop productivity formation, having high importance for crop production technologies.
Course content:	Conception of plant agrobiological potential. Photosynthesis. Photosynthetic aspects of plant and crop productivity formation. Plant ontogenetic cycle. Plant flowering initiation. Plant photoperiodism. The role of mineral nutrition in the productivity formation of different cultural plants. Elements of plant productivity. Potential and actual plant productivity. Possibilities to control the realization of productivity potential in different ontogenesis stages. Biological peculiarities of Poaceae palnt family. Biological peculiarities of Fabaceae plants. Peculiarities of productivity element formation during ontogenesis in potatoes and sugar beets. Biological peculiarities of horticultural plants.
Grading and evaluating student work in class and/or at the final exam:	The structure of achievements assessment: Control work – 20% (in the middle of the semester) Practical works – 20% (during semester) Individual task – 10% (until the end of semester) Examination – 50% (according to examination schedule)
Required reading and additional study material	Journal „Agricultural systems“ Journal „European Journal of Agronomy“ Journal „Journal of Agronomy and crop science“ Kopcewicz J., Lewak S. (red.). Podstawy fizjologii roślin. – Warszawa: Wyd. Nauk. PWN, 1998.
Additional information (if applicable)	