

Title	Plant Genetics		
Code	3GN18NAK16B		
Prerequisites	-		
Description	<p>Genetics is a fast-developing science that has an ever-increasing effect on human life. Foundations and basic rules of genetics will be provided in the course. Topics in molecular background of inheritance and expression of phenotypic characters will be also covered. Students will learn aspects of both molecular and classical genetics that are especially relevant for horticultural crop plants. This information forms a strong basis of the biological background of plant growing, plant protection, classical and molecular breeding and biotechnology. Knowledge of the Plant Genetics course will help students understand deeper courses in special fields of modern genetics (structural and functional genomics, developmental and reproductive genetics, and genetic engineering) at the MSc level.</p>		
Lecturer	Dr. Attila Hegedűs, Júlia Halász, Zsuzsanna Benyóné György, Róbert Oláh		
Semester	1st, fall	Contact hours/week	2+3
Level	BSc	ECTS	3
Teaching and Learning Methods:	Learning the topics delivered in the lectures and practical units, having at least satisfactory mark for the written exam completed during the semester, participation in practical units		
Reading:	<ul style="list-style-type: none"> • Recommended readings: Acquaah, G. (2009). Principles of plant genetics and breeding. John Wiley & Sons. 		
Assessment:	oral exam		