General Information			
Course name and	Plant Physiology	ECTS	6
code	ÚBEV/FR1/10	Credits	
		Semester	2nd (Summer)
			Bachelor & Master
			Degree
	I		-0
Aims			
Overview of all important physiological processes in plant organisms. Basic lab			
practice in plant physiology.			
Contents			
metabolism, growth and development, plant hormones, photoreceptors, dormancy, flowering, plant movements, stress physiology Lab practicals: Quantitative analyses of nutrients in dust. Separation of assimilation pigments by TLC. Quantitative analyses of chlorophyll a and b. Biotest of cytokinins. Qualitative and quantitative analyses of sugars: HPLC separation of glucose and fructose. Measurements of respiration by selective electrode. Measurement of total nitrogen by Kjeldahl method. Qualitative analyses of proteins. Activity of some enzymes in potato and pea. Colour of anthocyanins at different pH. Germination of seeds.			
Assessment Methods and Criteria			
10 finished lab protocols, oral final exam. Grading Scale (in %): A 100 – 91%, B 90 – 81%, C 80 – 71%, D 70 – 61%, E 60 – 51%, Fx < 51% Grading System: The University recognises the following six degrees for the evaluation of the study results: a) A – excellent (excellent results) (numerical value 1) b) B – very good (above average results) (1.5) c) C – good (average results) (2) d) D – satisfactory (acceptable results) (2.5) e) E – sufficient (results meet the minimum criteria) (3) f) FX –failed (requires further work) (4)			
Bibliography			
Taiz L. and Zeiger E., Plant Physiology Fifth edition, Sinauer Associates, Inc.; Sunderland 2010			