

<b>Course title</b>	Plant Physiology II		
<b>Course code</b>	<b>Semester</b>	<b>ECTS</b>	<b>Lectures/ classes</b>
13.1.1456	summer	4	Lectures: 15 hours + Lab class: 30 hours
<b>Name of the lecturer and contact</b>	dr hab. Wojciech Pokora, profesor uczelni; dr hab. Anna Aksmann, profesor uczelni; dr Aleksandra Eckstein; wojciech.pokora@ug.edu.pl		
<b>Prerequisites</b>	basic knowledge in plant biology or plant physiology		
<b>Course description</b>	<p>Topics of the lecture:  Photosynthesis: physiological and ecological aspect; development of plant shoot and root; plant hormones – synthesis, degradation, signalling; physiological effects of abiotic stress; mechanisms of plant adaptation to stress factors; basis of flowering and flower development; biology of plant ageing.</p> <p>Topics of laboratories:  Properties of chloroplast pigments, photosynthetic apparatus functioning under the stress conditions, plant growth regulators, plant development and movements, hormonal regulation of plant development, water management in plant cells and tissues, plant response to biotic and abiotic stress factors.</p>		
<b>Learning outcomes</b>	<p>Knowledge:</p> <ul style="list-style-type: none"> <li>- Student describes the structure and properties of basic types of biological macromolecules, molecular mechanisms of the basic metabolism pathways, the flow of genetic information and sources of variability of plant organisms</li> <li>- Student describes the structure and functional relationships in plants at the cellular, tissue, and organic levels</li> </ul>		

	<ul style="list-style-type: none"><li>- Student is familiar with the development and current state of knowledge, as well as the latest trends in plant physiology and indicates their relationship with other disciplines in the natural sciences.</li></ul> <p>Skills:</p> <ul style="list-style-type: none"><li>- Student uses basic research equipment and tools, as well as maintains correct order of activities in the laboratory when works with plant material</li><li>- Student conducts observations and performs basic physical, biological, and chemical measurements in the laboratory</li></ul>
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