



Module syllabus: *Diversity of vegetation and their conditions*

1. Overall information

Module coordinator	dr hab. Paweł Kwiatkowski
Contact	pawel.kwiatkowski@us.edu.pl
ECTS	2
Method for the verification of learning outcomes	The final grade is calculated as the weighted average of the final test of the laboratory (0.2); Continuous evaluation of knowledge, activity and practical skills (0.2) and written exam (0.6); on condition that all the partial grades are positive

2. Description of student activity and work

Lecture/discussion sessions	
Responsible instructor	dr hab. Paweł Kwiatkowski
Content	1. Vegetation as a component of the natural environment – natural factors that affect the geographical distribution of plants in Poland. 2. Models of the organisation of vegetation and causes of the formation of plant communities. Classification of vegetation – systems of natural and abstract units (review). 3. Composition and structure of plant communities – a characteristic combination of diagnostic plant species for the main syntaxonomic units. Types of vegetation – habitat, altitudinal and geographical variability. 4. A review of selected plant communities in Poland – forest vegetation. 5 A review of selected plant communities in Poland – vegetation of meadows and grasslands and coastal areas of stagnant and flowing water. Spatial vegetation complexes and units of the landscape.
Number of didactic hours (contact hours)	10
Literature	- Wysocki C. & Sikorski P. 2009. Fitosocjologia stosowana w ochronie i kształtowaniu krajobrazu. Wyd. SGGW, Warszawa. - Dzwonko Z. 2007. Przewodnik do badań fitosocjologicznych. Wydaw. Sorus, Inst. Bot. UJ, Poznań – Kraków. - Andrzejewski R. & Weigle A. 2003. Różnorodność biologiczna Polski. Narodowa Fundacja Ochrony Środowiska, Warszawa - Szafer W. & Zarzycki K. 1977. Szata roślinna Polski. Tom I. PWN, Warszawa. - Matuszkiewicz J. M. 1993. Krajobrazy roślinne i regiony geobotaniczne Polski. IGiPZ PAN. Prace Geogr. 158. - Matuszkiewicz W. 2001. Przewodnik do oznaczania zbiorowisk roślinnych Polski. PWN, Warszawa





Laboratory	
Responsible instructor	dr hab. Paweł Kwiatkowski
Laboratory projects	1. A review of selected plant communities: - vegetation of forests (analysis in the field) - vegetation of meadows - vegetation of grasslands - vegetation of coastal areas of stagnant and flowing water 2. Recognition of indicator plant species of selected plant communities. I. 3. Recognition of indicator plant species of selected plant communities. II.
Methodology of laboratory classes	Preparation for the exercise on the basis of the literature recommended by the instructor. Verification of content covered in class, review of teaching materials. Analysis of the problem and its development through the preparation of a multimedia presentation.
Number of didactic hours (contact hours)	20
Literature	- Matuszkiewicz W. 2001. Przewodnik do oznaczania zbiorowisk roślinnych Polski. PWN, Warszawa - Wysocki C. & Sikorski P. 2002. Fitosocjologia stosowana. Wyd. SGGW, Warszawa.

3. Forms of verification

Written exam	
Grades	Written exam is evaluated on a point scale 0 – 50, where for each question is worth one point. The following grades are awarded based on the total points scored: 5.0 (46-50 points); 4.5 (41- 45); 4.0 (36-40); 3.5 (31-35); 3.0 (26-30); 2.0 (0-25)

Continuous evaluation of knowledge, activity and practical skills	
Evaluation	Presentations and reports of the exercises will be judged according to the content.

Final laboratory test	
Grades	To pass the final test to verify the degree of the understanding and mastery of the message students will have to answer 30 test questions (multiple choice). Each answer is evaluated on a scale 0 – 1 points, the minimum number of points to obtain the positive grade is 16.

