Module syllabus: ***The diversity of fungi and algae***

1. Overall information

Module coordinator	dr hab. Adam Rostański
Contact	adam.rostanski@us.edu.pl; +48 32 2009465
ECTS	**2**
Method for the verification of learning outcomes	The final grade for the module is weighted on the average of the following student activities: - Active participation in laboratory classes (continuous evaluation of practical skills, tests and reports) (0.7) - Lecture final test (0.3) To be awarded a final grade, the student must have passed each activity of the module. Grades: below 51% – fail (F); 52-60% – with minimum academic criteria (E); 61-65% – satisfactory (D); 66-75% – good (C); 76-85% – very good (B), ≥ 85% – excellent (A)

2. Description of student activity and work

Lecture	
Responsible instructor	dr hab. Adam Rostański
Content	**Lectures** comprise the core subjects in the systematic position of fungi and algae against the background of global biological diversity, including the latest systematic trends. The criteria of the systematic position and a review of the diversity of the divisions (phyla) of algae, myxomycota (myxobionta), fungi and lichens together with an approximation of the issues related to their development cycles, phylogeny and evolutionary trends will be discussed.
Number of didactic hours (contact hours)	**5**
Literature	1. Margulis L., Schwarz K.V., 1997. Five kingdoms. Third edition. W.H. Freeman & Company, New York. 2. Bresinsky A., Körner Ch., Kadereit J.W., Neuhaus G., Sonnewald U. 2013 Strasburger's Plant Sciences. Springer Verlag, Berlin-Heidelberg.

Laboratory	
Responsible instructors	Staff of the Department of Botany and Nature Protection
Laboratory	The laboratory subject includes:

classes	- characteristics of blue-green algae (Cyanophyta) - general characteristics and systematic diversity of eukaryotic algae including: Diatoms (Bacillariophyta); Green algae (Chlorophyta); Charophyte (Charophyceae); Brown algae (Phaeophyta); Red algae (Rhodobionta: Rhodophyta) - general characteristics of Fungi and Myxobionta (Myxomycota) - characteristics and systematic diversity of lichens (Lichenomycota)
Methodology of laboratory classes	Students will work in groups and perform, individual work under the supervision of an instructor: - Identifying the key characteristics of taxonomic groups of organisms - Applying their theoretical knowledge to identify the morphology of specific organs and specific biological processes Individual consultations with students related to the projects that are realised during the laboratory classes
Number of didactic hours (contact hours)	**25**
Literature	1. Bresinsky A., Körner Ch., Kadereit J.W., Neuhaus G., Sonnewald U. 2013 Strasburger's Plant Sciences. Springer Verlag, Berlin-Heidelberg. 2.Szweykowska A., Szweykowski J. 2004. Botanika, tom II Systematyka. Wyd. Nauk. PWN, Warszawa.

3. Forms of verification

Continuous evaluation of knowledge, activity and practical skills	
Grades	Grades are awarded on a scale of A-F, where A is the best and F is a fail. An excellent performance (A) – the student actively participates in laboratory work, demonstrates an excellent understanding of the theoretical basis and practical range of activities A good performance (C) – the student demonstrates a good judgment and knowledge, correctly exhibits a sense of the theoretical basis and practical range. A satisfactory performance (E) – the student demonstrates a satisfactory judgment and knowledge of the theoretical basis and practical range of activities. A performance that does not meet the minimum academic criteria (F) – the students is not engaged in the theoretical basis and practical range of activities. Two (maximum) justified absences are acceptable; a student who has three or more absences will not receive credit.

Reports from realised laboratory work	
Evaluation	After each lab, at the end of the observation, students will present the instructor with the "work card" (report) that they prepared. The correctness of completing the "work card" (report) will be assessed. There are two possible assessments – credit (good) or no credit (bad). The evaluation comprises judgment and knowledge related to laboratory classes. Grades are awarded on a two-step scale A or F, where A is good – without any essential errors and F is a fail – no report.

Final test	
Grades	There will be a written final test. The range of material is based on the material covered in the classes and includes a basic knowledge from the lectures and laboratories and the acquired skill. The test will take approx. 30 min. There are four tests, which are compatible with the schedule of the classes. Grades are awarded on a scale of A-F, where A is the highest and F is a fail. The final evaluation is determined according to the following scale and is based on the maximum number of points: 91-100% points – A 81-90% points – B 71-80% points – C 61-70% points – D 51-60% points – E 0-50% points – F