

## Practical aspects of environmental conservation - part 1

### Educational subject description sheet

#### Basic information

<b>Field of study</b> Environmental Protection and Management		<b>Education cycle</b> 2021/22	
<b>Speciality</b> -		<b>Subject code</b> UJ.WBIEPMS.210.5cac67badf3bc.21	
<b>Department</b> Faculty of Biology		<b>Lecture languages</b> English	
<b>Study level</b> second cycle		<b>Disciplines</b> Biological sciences	
<b>Study form</b> full-time degree programme		<b>ISCED classification</b> 0511 Biology	
<b>Education profile</b> General academic		<b>USOS code</b>	
<b>Mandatory</b> obligatory			
<b>Subject coordinator</b>		Izabela Wierzbowska	
<b>Lecturer</b>		Izabela Wierzbowska, Henryk Okarma	

<b>Period</b> Semester 1	<b>Examination</b> exam	<b>Number of ECTS points</b> 3.0
	<b>Activities and hours</b> lecture: 22, conversatory classes: 20	

#### Goals

C1	To acquire knowledge on nature conservation and management, the most important legislative regulations implemented in Poland and worldwide
C2	To learn about wildlife management and methods of solving of human-wildlife conflicts.

## Subject's learning outcomes

Code	Outcomes in terms of	Effects	Examination methods
<b>Knowledge - Student knows and understands:</b>			
W1	Student identifies main threats to the natural environment	EPM_K2_W01	Final quiz, essay, presentation
W2	Student explains interspecies relations with regards to various habitat conditions including human pressure	EPM_K2_W04	Final quiz, essay, presentation
W3	Student describes methods used in compensation systems for damage caused by protected animal species	EPM_K2_W03	Final quiz, essay, presentation
<b>Skills - Student can:</b>			
U1	Student evaluates data and statements using critical thinking skills;	EPM_K2_U03	Final quiz, essay, presentation
U2	Student implements specialised knowledge to analyse data and draw conclusions	EPM_K2_U02	Final quiz, essay, presentation
U3	Student uses written and oral communication skills with the help of various multimedia tools	EPM_K2_U04	Final quiz, essay, presentation
<b>Social competences - Student is ready to:</b>			
K1	Student can inspire and organise work of other people	EPM_K2_K06	essay, presentation
K2	Student cooperates in team and takes different tasks	EPM_K2_K07	essay, presentation

## Calculation of ECTS points

Activity form	Activity hours*	
lecture	22	
conversatory classes	20	
preparation of a multimedia presentation	10	
conducting literature studies	5	
preparation of a paper	10	
preparation for final test	15	
<b>Student workload</b>	<b>Hours</b> 82	<b>ECTS</b> 3.0
<b>Workload involving teacher</b>	<b>Hours</b> 42	<b>ECTS</b> 1.6

\* hour means 45 minutes

## Study content

No.	Course content	Subject's learning outcomes
1.	<ul style="list-style-type: none"> <li>- nature conservation management - history, legal, social and economic regulations;</li> <li>- human-wildlife conflicts - diagnosis &amp; management;</li> <li>- major threats to natural resources and biodiversity;</li> <li>- alien invasive species;</li> <li>- methods of protection of threatened species and populations</li> </ul>	W1, W2, W3, U1, U2, U3, K1, K2

## Course advanced

### Teaching methods:

conversation lecture, lecture with multimedia presentation, discussion

Activities	Examination methods	Credit conditions
lecture	Final quiz	Written final assignment based on lectures and practical classes, will consist of two parts: part 1: close-ended question/multiple choice questions; part 2: two open-ended questions with a varied level of difficulty. With the usage of a proper vocabulary learned during the course, describes at least three main threats, including anthropogenic, to natural environment; describes at least two methods used for compensation for damage caused by protected animal species; describes at least four human-wildlife conflict cases; can list the main legislative acts on nature protection implemented in Poland and worldwide. Grading and weights for each part of the course: 1) participation and active performance during lectures and practical classes - 10%; 2) individual presentation - 15%; 3) group discussion - 10%; 4) written final assignment - 65%. Admission to written exam: attendance in all discussion sessions; both individual and forum discussion passed at least at 50% of given points for the assignments. To get credit for the course the following prerequisites have to be fulfilled: - completed and accepted individual presentation; completed and accepted group discussion; the evaluation form of group members handed to the coordinator; at least 50% of total points awarded for the whole course. The attendance during lectures is recommended. Both attendance and active performance during lectures and discussion sessions will be rewarded by the coordinator. The points will be added to the final grade.
conversatory classes	Final quiz, essay, presentation	Individual presentation - each student will study one given topic, review at least 10 related scientific papers, write summary, and give a 15 to 20-minute presentation. Attendance is obligatory and required to take final written assignment. Group discussion - group work, each team will have to study and analyse one of given topic, review at least 10 related scientific papers, provide a written summary, give a 15 to 20-minute presentation, actively participate in the discussion with the other groups. Attendance is obligatory and required to take final written assignment. Group work (collaboration, time management, discussion, evaluation of data will be assessed by each group member) will be anonymously assessed by the team members. The evaluation form must be handed to the course coordinator. Mean number of the points will be added to final grade.

## Entry requirements

English competence at least at level B1

## Literature

### Obligatory

1. Pullin A.S. Conservation Biology. Cambridge University Press. Cambridge. 2002

### Optional

1. Boitani L., Fuller T., K. (red). Research techniques in Animal Ecology. Controversies and Consequences. Columbia University Press. New York. 2000
2. Woodroffe R., Thirgood S., Rabinowitz A. (red). People and Wildlife, Conflict or Co-existence? Cambridge University Press. Cambridge. 2005

## Effects

Code	Content
EPM_K2_W01	The graduate knows and understands complexity of natural phenomena and processes and their impact on nature and environment
EPM_K2_W04	The graduate knows and understands contemporary problems of natural environment and is able to point out new threats
EPM_K2_W03	The graduate knows and understands necessity to protect environment, to manage common resources and legal aspects of such activities. He/she understands mutual dependencies, risks and consequences of administrative decisions on various levels of environment functioning
EPM_K2_U03	The graduate is able to use specialist knowledge necessary to interpret collected empirical data and to draw appropriate conclusions
EPM_K2_U02	The graduate is able to use appropriate statistical tools and software to collect and interpret data
EPM_K2_U04	The graduate is able to prepare public presentations related to environment and nature protection using various techniques of verbal and multimedia communication
EPM_K2_K06	The graduate is able to pursue team work while assuming different roles and also is able to plan the work in terms of sharing responsibilities and managing time
EPM_K2_K07	The graduate is able to identify and settle dilemmas related to his work following the rules of ethics and legal requirements