

Course code:        06-EMS-BIODI-SP1        06-EMS-BIODI-SP2        Plan position:        .....

## 1. INFORMATION ABOUT THE COURSE

### A. Basic information

Name of course	<b>Ecosystems, Biodiversity and Climate Change</b>
Field of studies	
Level of studies	
Profile of studies	
Form of studies	Stationary
Specialty	
Unit responsible for the field of studies	Faculty of Animal Breeding and Biology
Name and academic degree of teacher(s)	Chachaj Bogusław, PhD
Introductory courses	
Introductory requirements	

### B. Semester/week schedule of classes

Semester	Lectures (W)	Auditorium classes (Ć)	Laboratory classes (L)	Project classes (P)	Seminar (S)	Field classes (T)	Number of ECTS points
Winter / summer		25					5

## 2. LEARNING OUTCOME

No.	Learning outcomes description	The reference to the learning outcomes of specific field of study	The reference to the learning outcomes for the area
<b>KNOWLEDGE</b>			
W1	Student knows the economic aspects and the basic legal issues related to environmental protection. He knows how to preserve biodiversity. He understands anthropogenic and natural causes of climate change. Understands the importance of forests to the world.		
<b>SKILLS</b>			
U1	The student is able to define threats to biodiversity from industry and agriculture. Is able to propose a program for improving habitats and present the importance of sustainable forest management.		
U2	He has the ability to analyse and evaluate environmental management systems at the local scale, also in economic terms.		

U3	The student has knowledge of forms of nature conservation, biodiversity and reintroduction. The student is able to properly assess the state of the environment in accordance with the requirements of a specific species. The student is able to design an ecological corridor and field afforestations.		
<b>SOCIAL COMPETENCES</b>			
K1	Student takes rational decisions in the field of environmental protection, harmoniously combining the social, economic and natural issues. He is sensitized to the unequal distribution and use of resources in the world.		

### 3. TEACHING METHODS

multimedia presentations, films, articles
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### 4. METHODS OF EXAMINATION

presentation, project of field afforestations
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### 5. SCOPE

Auditorium classes	Ecosystem as a basic unit in nature. What distinguishes environmental protection from ecology. Water pollution. Air pollution. Soil pollution. Threats to the climate and methods of reducing them. Bioindication and environmental monitoring. Forms of nature protection in Poland. The importance of biodiversity. The importance and functions of forests. Sustainable forest management. The importance of biodiversity and methods of its protection. The impact of agriculture on nature. The structure and role of mid-field afforestation. Ecological corridors.
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### 6. METHODS OF VERIFICATION OF LEARNING OUTCOMES

LEARNING OUTCOME	Form of assessment					
	Oral examination	Written exam	Colloquium	Project	Presentation	.....
W1				x	x	
U1				x	x	
U2				x	x	
U3				x	x	
K1				x	x	

### 7. LITERATURE

Basic literature	Krebs, CJ 2009. Ecology: The Experimental Analysis of Distribution and Abundance. 6th ed. Benjamin Cummings, San Francisco. 655 pp.
Supplementary literature	Hill P. 2017. Environmental Protection: What Everyone Needs to Know. Oxford Univ Pr. 256 pp.

### 8. TOTAL STUDENT WORKLOAD REQUIRED TO ACHIEVE EXPECTED LEARNING OUTCOMES EXPRESSED IN TIME AND ECTS CREDITS

Student's activity		Student workload– number of hours
Classes conducted under a	Participation in classes indicated in point 1B	25

direct supervision of an academic teacher or other persons responsible for classes	Supervision hours	5
Student's own work	Preparation for classes	25
	Reading assignments	40
	Other (preparation for exams, tests, carrying out a project etc)	30
Total student workload		125
Number of ECTS points		5