Course name:
Monitoring and Conservation of Forest Biodiversity

ECTS	2
Course status	optional
Course final assessment /evaluation of outcomes	graded credit
Prerequisite	none

Main field of study:
Forestry

Educational profile	General academic
Code of studies and education level	MSc
Semester of studies	summer
Language of instruction	English

Course offered by:

Name of faculty offering the course	Faculty of Forestry
Name of department offering the course	Department of Forest Biodiversity
Course coordinator	dr hab. inż. Anna Gazda, prof. URK

Learning outcomes:

Symbol of outcome	Description of the learning outcome	Reference to main field of study outcomes	Area symbol*
KNOWLEDGE – student knows and understands			
LES_MCFB_W01	the concept of biodiversity, different methods to collect the records of biodiversity of both natural and managed forests	LES2_W01 LES2_W02 LES2_W03	RL
SKILLS – student is able to			
LES_MCFB_U01	collect the records of biodiversity.	LES2_U01 LES2_U02 LES2_U06	RL
SOCIAL COMPETENCIES – student is ready to:			
LES_MCFB_K01	discuss with other participants, and to cooperate with them.	LES2_K01 LES2_K02	RL

Teaching contents

Lectures		20 hours
Topics	1. The concept of biodiversity 2. Gradients of species richness 3. Forest biodiversity 4. Human influence on forest diversity 5. Measurement of biodiversity (forest biodiversity indicators) 6. Sampling design and data collection in biodiversity monitoring. 7. Analysis and interpretation of natural forest biodiversity data 8. Maintaining forest biodiversity 9. Analysis and interpretation of managed forest biodiversity data. Stand management to maintain biodiversity 10. Targets for forest biodiversity conservation	
Accomplished learning outcomes	LES_MCFB_W01	

Means of verification, rules and criteria of assessment	The final grade results from the sum of points for the written exam, prepared presentation (minimum 50% of points to obtain the 3.0 mark); and the activity during our meetings. (60% of the final module assessment)

Field exercices:		10 hours
Topics	1. Biodiversity in a natural forest.	
	2. Biodiversity in a managed forest	
	3. Biodiversity in a secondary forest	

Accomplished learning outcomes	LES_MCFB_U01, LES_MCFB_K01
Means of verification, rules and criteria of assessment	Presentation of the analysis of the results of observations

References:

Basic	1. Angelstam, P., Dönz-Breuss, M., Roberge, J.-M. 2004. Targets and tools for the maintenance of forest biodiversity. Ecological Bulletins 51: 11–24.
	2. Magurran, A. 2004. Measuring Biological Diversity. Blackwell Publishing, Malden, MA.
	3. Pullin A. S. 2002. Conservation Biology. Cambridge University Press Cambridge, UK
Supplementary	1. Rosenzweig, M.L. 2001. The four questions: What does the introduction of exotic species do to diversity? Evol. Ecol. Research 3: 361-367.
	2. Rosenzweig, M.L. 2003. Win-win ecology: How the Earth's species can survive in the midst of human enterprise. New York: Oxford University Press.
	3. Rosenzweig, M.L. 2003. Reconciliation ecology and the future of species diversity. Oryx 37: 194-205.

Structure of learning outcomes

Area of academic study: R – Agricultural sciences, L -forestry	2 ECTS **

Structure of student activity

Contact hours		40	hrs.	1.6	ECTS**
Including:	lectures	20	hrs.		
	classes and seminars	10	hrs.		
	consultations	5	hrs.		
	participation in research	0	hrs.		
	obligatory traineeships	0	hrs.		
	participation in examination	5	hrs.		
e-learning		…	hrs.	….	ECTS**
student own work		10	hrs.	0.4	ECTS**

*Areas of academic study in the fields of: H- humanities; S - social studies; P – biological sciences; T – technological sciences; M- medical, sport and health sciences; R – Agricultural, forestry and veterinary sciences; A – the arts
** stated with an accuracy to 0.1 ECTS, where 1 ECTS = 25 - 30 hours of classes