

Title:	Management of freshwater biodiversity
Lecture hours:	15 hrs
Study period: (summer/winter)	Winter
Number of credits:	2
Assessment methods:	15 hrs - lectures
Language of instruction:	English
Prerequisites:	High-school level knowledge of ecology
Course content:	<p>1 Classification of freshwater habitats</p> <p>2 Types of wetlands, tropical vs. temperate wetlands, hydrology, ecology</p> <p>3 Management of aquatic ecosystems</p> <p>4 Freshwater biodiversity - classifying limnological diversity (phytoplankton, zooplankton, zoobenthos)</p> <p>5 Threats to fresh waters: aquatic invasive species (introducing invasive species, invasion process and pathways, management of invasive species, aquatic invasive species in Europe)</p> <p>6 Aquatic conservation and human water use (conceptual framework, freshwater ecosystem services, human water use, sustainable water use in Europe)</p> <p>7 Freshwater biodiversity conservation (focusing conservation efforts, effective conservation strategies, future of freshwater biodiversity conservation)</p>
Learning outcomes:	<p>1) Recognise and explain the scope and relevance of freshwater biology 2) Identify, compare and contrast the structure and function of freshwater habitats 3) Identify and discuss the diversity and ecological roles of major groups of freshwater organisms, and be aware of techniques for sampling them 4) Appreciate and discuss various freshwater ecological processes of topical and/or local interest 5) Appreciate and discuss key issues in aquatic conservation of topical and/or local interest 6) Synthesise information to analyse and understand the role of science in informing aquatic conservation policy and management 7) Critically and constructively evaluate scientific papers and oral presentations; and better communicate ideas and information verbally and through writing</p>
Name of lecturer	prof. Krystian Obolewski
Contact (email address):	krystian.obolewski@ukw.edu.pl
Literature:	<p>Wetzel R. G. 2001. Limnology: Lake and River Ecosystems</p> <p>Dodson S, 2004. Introduction to Limnology. McGraw-Hill</p> <p>Dodds W. K, 2002. Freshwater Ecology: Concepts and Environmental Applications. Academic Press</p> <p>Dodds W. K., Whiles M. R. 2019. Freshwater Ecology</p>