Title:	**Ecological modelling of lakes and wetlands**
Lecture hours:	15 lecture 15 laboratory
Study period: **(summer/winter)**	winter
Number of credits:	2 ECTS
Assessment methods:	Tests
Language of instruction:	English
Prerequisites:	-
Course content:	-Modeling the response of the biological components and environmental conditions of lakes and wetlands -Modeling menagment options for controlloing the invasive Zebra Mussel, -Zebra Mussel moratality rates and system carrying capacity, -Population dynamics and model calibration, -Statistical analysis and modelling methods.
Learning outcomes:	Students know: -how to model the reactions of the benthic microbial community, -the ability to manage models for invasive control of Zebra mussels, -Statistical analysis and different model calibration,
Name of lecturer:	Professor Krystian Obolewski, MSc Martyna Bąkowska
Contact (email address):	Martyna Bąkowska: bakowska.martyna@ukw.edu.pl
Literature:	N.B. Chang, S. E. Jorgensen, F. L. Xu, Ecological Modelling and Engineering of Lakes and Wetlands [w:] Developments in Enviromental Modeling Volume 26. Grillo O., Venora G., 2011, Ecosystems Biodiversitym,Intech. Wolanski E., Elliott M., 2016, Estuarine Ecohydrology, Second edition. Wood P. J., Hannah D. M., Sadler J. P., Hydroecology and Ecohydrology Past, Present and Future, Wiley. Keddy P. A., Wetlands Ecology Principles and Conservation, second edition, Cambridge University Press