Table S2.6.4. Form for the preparation of the course information sheets

Name of the subject
Ecology and biodiversity of aquatic ecosystems

Code of the subject	Status of the subject	Semester	Number of ECTS credits	Class load
	Optional	Autumn, Winter	10	**5**

Study programme for which it is organized PhD Program "Natural sciences and Technology for Sustainable Development", Module Environment protection 3rd degree

Dependency by other subjects No prerequisites

Objectives of studying this subject
Detailed acquaintance with aquatic habitats, ecological factors in them, and the structure and dynamics of the corresponding biocenoses that inhabit them.

Contents of the subject (teaching units, forms of students' individual work, forms of testing) presented per working weeks in the academic calendar:

Preparatory week	
I week	Introduction to community ecology. Ecosystem diversity.
II week	Genetic biodiversity
III week	Species biodiversity
IV week	Species extinction, species biodiversity as a surrogate for global biodiversity
V week	Metapopulation concept
VI week	Anthropogenic impact on ecosystems - ecological effect
VII week	Ecological effects of abiotic environment. Adaptations of organisms to the abiotic environment.
VIII week	Test
IX week	Ecosystems and successions
X week	Community analysis and statistical analysis
XI week	Ecosystems - vertical and horizontal zoning
XII week	Ecosystem division and boundaries between ecosystems
XIII week	Structure of communities in ecosystems - theoretical foundations
XIV week	Test
XV week	Ecosystem diversity of Montenegro

Methods of education

- lectures
- experimental and laboratory work
- consultations

Students' load

Weekly	In Semester
3 hours lectures 2 hour tutorial 8 hours and 20min individual work including consultations Total: 13 hours and 20 minutes	300 hours Including preparatory and additional work

Students' obligations during the teaching:

Students are required to attend lectures regularly

Literature:

1. Brien Moss, Ecology of Fresh Waters: A View for the Twenty-First Century, Wiley-Blackwell (2011)
2. George Karleskint, Richard Turner and James Small, Introduction to Marine Biology, Cengage Learning; 3 edition (2009)

Learning outcomes (complied with the outcomes for the study programme): After the student passes this exam they will be able to find and explain the relationship between structure, function and processes at the level of population, community and ecosystem, and understand their mutual influence, to recognize hierarchical levels of biodiversity and factors affecting biodiversity, explain concepts related to ecology and biodiversity of aquatic ecosystems, apply the acquired knowledge about ecology and biodiversity of aquatic ecosystems in everyday life and predict how changes in the environment and various abiotic factors can affect aquatic habitats.
Forms of tests and evaluation: • Oral examination, 40% • Written examination 60%
Name and surname of teacher and associate: To be decided
Particularities needed to be emphasized for the subject:
Note (if needed):