#### **SYLLABUS**

Name: Ecotoxicology (25-BI-S2-W-E-AN)

Name in Polish: **Ekotoksykologia** Name in English: **Ecotoxicology** 

Information on course:

Course offered by department: Faculty of Biological Sciences Faculty of Biological Sciences Course for department:

## Default type of course examination report:

Grading

Language:

English

#### Short description:

Prereguisites regarding knowledge, skills, and social competences for the course/module:

Elementary knowledge in chemistry, ecology and computational methods in biological sciences.

#### Student's own work:

- preparation for classes: 10h
- reading the indicated literature: 15h
- preparation for tests: 20h

#### **Description:**

Educational aims:

Obtaining knowledge on the impact of pollutants and chemicals on living organisms at various organizational levels and learning about the methods of testing and assessing this impact.

#### Course content:

Theoretical basis of ecotoxicology. Potential sources of environmental contamination. The effects of environmental toxins on living organisms at a different organizational level (individual, population, ecosystem). Analysis of toxic substances in the environment. Methods used in ecotoxicology - principles of conducting biotests, basic types of biotests.

## Bibliography:

Mandatory and recommended reading list:

Forbes V.E., Forbes T.L., 1994. Ecotoxicology in Theory and Practice. Chapman and Hall, London;

Zubcov E., Ene A., 2021. Ecotoxicological methodological guide for environmental monitoring: problematics, laboratory techniques and health risk investigation. BSB27-MONITOX, Joint Operational Programme Black Sea Basin, Institute of Zoology; Center of Research of Hydrobiocenoses and Ecotoxicology. Chisinau;

Rybak J., Kołwzan B., 2011. Environmental Quality Management. Course in English. Theory and Laboratory Practice. PRINTPAP Łódź; Zakrzewski S.F., 2002. Environmental Toxicology, Third Edition. Oxford University Press.

#### Learning outcomes:

Intended learning outcomes

Student:

## K W01

explains the basic concepts of ecotoxicology, and lists the effects of environmental toxins on living organisms and biodiversity;

is aware of the negative consequences of environmental pollution caused by human activity;

# K U01

correctly uses the equipment in the ecotoxicological laboratory and applies the basic methods of toxicological analysis;

K U04selects laboratory methods to determine the toxicity of environmental toxins, interprets the results and draws conclusions based on the conducted experiments.

# Course credits in various terms:

<without a="" program="" specific=""></without>			
Type of credits	Number	First term	Last term
European Credit Transfer System (ECTS)	2	2024/25-L	