

Course title: ENVIRONMENTAL AND NATURE PROTECTION

ECTS credit allocation (and other scores): 2

Semester: autumn

Level of study: ISCED-6 - first-cycle programmes (EQF-6)

Branch of science: Natural sciences

Language: English

Number of hours per semester: 30

Course coordinator/ Department and e-mail: Stanisław Czachorowski/Department of Zoology, e-mail: stanislaw.czachorowski@uwm.edu.pl

Type of classes: classes and lectures

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#### Substantive content

**CLASSES:** Two options to choose from: A. Environmental protection from a household perspective, energy consumption, waste management, the role of consumer attitudes, environmental meal costs, LCA, the 5 R rule (reduce, reuse, renew, recycle, recover), Energy consumption at home; Assessment of mortality and factors affecting mortality in the human population. B. Urban landscape, sustainable transport, traffic assessment, public transport, waste management, green areas and the problem of eco-development, housing development project. Exercise reports and final report or (optionally) a shared pro-environmental project.

**LECTURES:** Acquainting with the basic problems of protection and shaping the natural environment on a global and local scale, indication of mutual conditions of economic, social and environmental development. Possibilities of individual actions to improve the environment. Natural environment - basic elements, ecosystem dependencies, diversified life strategies. Gaia concept. Anthropopression, globalization of interactions. Soil, air and water pollution. Ecological catastrophes. Sustainable development strategy. Waste and water management. Eurytopization, synanthropization and allochtonization of biocenoses. Nature protection. Ethics and ecological philosophy.

**LEARNING PURPOSE:** Nature protection on a global and local scale, sustainable development.

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On completion of the study programme the graduate will gain:

**Knowledge:** Individual possibilities of influencing to the environment and biodiversity.

**Skills:** Simple observations regarding the production of municipal waste and consumer attitudes, field observations regarding urban landscape ecology.

**Social Competencies:** assuming various roles during the implementation of the project, correctly defines the priorities in the implementation of the group task.

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**Basic literature:** 1. Eugene P. Odum "Fundamentals of Ecology", Andrew S. Pullin "Conservational Biology", Cambridge Univ. Press, 2002.

**Supplementary literature:** 1. Pullin A.S., Biologiczne podstawy ochrony przyrody, Wyd. PWN, 2004, 2. R. Buchsbaum, M. Buchsbaum "Basic ecology", 1987.

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The allocated number of ECTS points consists of:

Contact hours with an academic teacher: 32

Student's independent work: 18