

Environmental Ecology

Course description

Subject leader: Gergely Király, Ph.D., university professor

Lecturer: Gergely Király, Ph.D., university professor

Institute: University of Sopron, Faculty of Forestry, Institute of Silviculture and Forest Protection

Course code:

Credit points: 4

Evaluation: oral exam / written exam / mid-term grade

Instruction hours/week (lecture + practice): 2+1

Language: English

Course content

Levels of the Ecology (from global to organismal scale). Main factors determining the ecosystems: climate and weather, water, geology and soils. Nutrient Circles. Major life zones characterized by vegetation type (terrestrial biomes) or physical environment (aquatic biomes), and their most important features (distribution, precipitation, temperature, plants, and animals). Environmental Ecology of Central Europe. Ecological succession. Human activities and their impact for certain biomes and regions. Declining biomes and habitats. Eutrophication. Acidification. Air Pollution. Island Biogeography. Biodiversity and Extinctions.

Required and recommended reading

All material of the lectures and practices (which composes the most important contents of the subject) is available in ppt!

Mitsch, W.J.; Jørgensen, S.E (2003): Ecological Engineering and Ecosystem Restoration. John Wiley & Sons, Inc., New York.

Monson, R. K. (ed.) (2014): Ecology and the Environment. Springer, New York.

Riisgård, H. U. (2017): General Ecology: Outline of contemporary ecology for university students. Bookboon.com. <https://bookboon.com/dk/general-ecology-ebook>