



Syllabus

Term: 2026/27/1 **Subject name:** Development of cultural landscapes, landscape ecology and evaluation **Subject code:** MNGEO9801

Unit (Unit code) Institute of Geography and Earth Sciences (FOLDRAJZ)

Lecturer responsible for the course: Dr. SZABÓ Géza

Requirement: Exam

Classes per week : 3/0/0

Classes per term:

Purpose of education:

The subject promotes the development of the students' complex view of nature by illustrating the landscape as a complex ecological system.
The subject also describes land evaluation methods for solving today's socio-economic needs and problems, which students can use later in practical life.

Contents:

1. Landscape concepts, ecological and cultural geographical approaches
2. General systems theory in landscape research
3. Complex landscape analysis and modelling as the main method of landscape ecological research
4. Classification of landscape models and their applicability in research
5. Mapping landscape pattern (the patch-corridor-matrix approach)
6. Types of European agricultural landscapes, environmental problems
7. Environmental problems of urban landscapes
8. Concepts and approaches to land evaluation
9. The FAO guidelines (land concept, two-level evaluation in agriculture)



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10. Landscape potentials, classification, methodological approaches
11. The USDA LCC land evaluation and its modifications in other countries
12. Agroecological evaluation methods in Hungary
13. The application of GIS methods in land evaluation

System of examining and valuation:

End-of-term test (50%)

Presentation of a landscape in a small performance (50%)

Bibliography:

Naveh, Z. and Libermann, A. 1994: Landscape ecology. Springer Verlag. New York.

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Bibliography: