| **1. Course title:** Landscape Analysis and Planning | | | | |
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| **2. Code:** | | **3. Type (lecture, seminar, laboratory):** lecture | | |
| **4. Total of contact hours:** 26 hours | | **5. Number of credits (ECTS):** 3 | | |
| **6. Pre-requisites (max. 3):** none | | | | |
| **7. Announced:** ☒ autumn semester, ☐ spring semester, ☐ both semesters | | | | |
| **8. Limit for participants:** no | | | | |
| **10. Instructor-in-charge (faculty, institute and department):**  Dénes LÓCZY, DSc (FS, Institute of Geography, Department of Physical Geography and Environment) | | | | |
| **11. Instructor(s) and percentage:** | | Dénes LÓCZY | | 100 % |
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| **12. Language:** English | | | | |
| **13. Course objectives and learning outcomes:**  This is meant to be a complex environmental course (lectures + seminars) with the aim to deepen and expand knowledge on the physical environment and to illustrate the practical aspects of environmental issues. Students successfully completing the course will be *familiar* with the basic concepts of landscape ecology; *acquire* the basic vocabulary of the discipline; are *capable* of collecting and processing data in landscape ecology, interpeting remote sensing images of landscape structure, investigating the components of the landscape individually and in an integrated manner, recognizing types of landscape pattern, assessing their morphological characteristics, collecting landscape information, systemizing and interpreting them, preparing landscape ecological analyses and presenting them;  *are open* to environmental problems, *act* in an environmentally conscious way, are *dedicated* to sustainable development, *intend* to obtain deeper knowledge on the geographical aspects of environmental processes and phenomena, their description and explanation;  *are able* to *actively* interpret, represent and illustrate fundamental environmental processes; utilizing the necessary data *are able* to *independently* prepare figures, presentations and summaries aiding decision making. | | | | |
| **14. Course outline / Milestones**   1. Complex landscape analysis and modelling as basic methods of landscape ecological research 2. Classification of landscape ecological models by content 3. Classification of models by form, Hungarian and international examples, presentation of their usefulness 4. Significance of landscape ecological mapping, evolution of its legend 5. Methodology of biotope mapping, its significance in landscape ecological analysis, examplex from home and abroad 6. Concept of landscape monuments and methodology for their survey 7. written test (Landscape analysis approaches) 8. Basic concepts of environmental management and planning, the Leitbild concept, legal regulation 9. Analysis of the EU concepts on regional development from the aspect of landscape planning 10. National landscape planning (analyses of examples) 11. County-level landscape planning (analyses of examples) 12. Settlement-level landscape planning (analyses of examples) 13. written test (Landscape planning)   Practices:  Week 1: Presentation of a land use problem to illustrate the interactions among landscape factors and land use  Week 2: Practicing the preparation of landscape ecological maps  Week 3: Reporting (Landscape ecological models and mapping)  Week 4: Questionnaires for landscape monument surveys, analyses of examples (natural values)  Week 5: Questionnaires for landscape monument surveys, analyses of examples (cultural values)  Week 6: Reporting (Landscape monument survey)  Week 7: Reporting (Landscape monument survey)  Week 8: Landscape planning in the European Union (ecological networks, detrermiantion of Natura 2000 areas)  Week 9: Reporting (international landscape planning)  Week 10: Reporting (national landscape planning)  Week 11: Reporting (landscape plans for counties)  Week 12: Reporting (landscape plans for settlements)  Week 13: Examples for special landscape planning tasks (adjustment of structures to the landscape, aesthetical assessment) | | | | |
| **15. Mid-semester works**  Week 3: Reporting (Landscape ecological models and mapping)  Week 6: Reporting (Landscape monument survey)  Week 7: Written test (Landscape analysis approaches) see Lectures  Week 9: Reporting (International landscape planning)  Week 10: Reporting (National landscape planning)  Week 11: Reporting (landscape plans for counties)  Week 12: Reporting (landscape plans for settlements  Week 13: Written test (Landscape planning), see Lectures | | | | |
| **16. Summative assessment, formative assessment**  The written tests make up 50% and the reporting on selected topics also 50% of the final mark.  The final mark is determined according to percentage fulfilment:  0–49% not satisfactory  50–64% satisfactory  65–74% average  75–84% good  85–100% excellent  Topics for written tests:   * methods of landscape analysis, landscape ecological modelling and mapping * methodology of regional planning and interactions with landscape planning, objectives and methods of landscape planning | | | | |
| **17. Reading assignments:**   1. Marsh, W.M. (2010) Landscape Planning: Environmental Applications. 5th Edition. New York: John Wiley and Sons, 528 p. ISBN: 978-0-470-57081-4 | | | | |
| **18. Recommended texts:**  [1] Randolph, J. (2013) Environmental Land Use Planning and Management. Seattle, WA: Island Press, 704 p. ISBN 978-1-5596-39484 | | | | |
| **Date** | 10 December, 2017 | **Prepared** |  | |
| Dénes LÓCZY DSc  instructor-in-charge | |
| **Endorsed** | | |  | |
| András TRÓCSÁNYI PhD leader of the program | |