

COURSE TITLE:

LANDSCAPE GEOGRAPHY, LANDSCAPE RESEARCH

COURSE DESCRIPTION:

Landscape research is an emerging geographical discipline with strong correlation to ecology. This field science comprises descriptive (landscape geography), theoretical (landscape ecology) and practical aspects (landscape conservation and landscape management). Present course primarily focuses theoretical background of landscape science with applications.

Landscape geography and landscape science includes following topics:

1. Introduction: history of landscape science, basic concept of the landscape research; 2. Landscape forming processes; 3. Patch-corridor-matrix: the land mosaics; 4. Patches: categories, structure, functions, metrics of patches, core-edge; 5. Boundaries: the concept of ecotones, structures and functions; 6. Corridors – general introduction 7. Roads - structure and functions, effects of the roads to the environment; 8 Tree lines and forest strips; 9. Riparian corridors; 10. Networks and matrix.

LITERATURE:

Richard T. T. Forman 2007. Land Mosaics: The Ecology of Landscapes and Regions Cambridge University Press, 693 p.

Turner, Monica G., Gardner, Robert H., O'Neill, Robert V. 2001. Landscape Ecology in Theory and Practice Pattern and Process. Springer. P. 404. ISBN: 0-387-95122-9

Darrel Hess 2014. McKnight's Physical Geography: A Landscape Appreciation. Prentice Hall. 688 ISBN-10: 0321818946

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