



## COURSE DATASHEET

<b>Semester:</b>	2013/14/1
<b>Course:</b>	Environmental Resource Management
<b>Code:</b>	VEMKKVM112E
<b>Responsible department:</b>	Department of Environmental Engineering
<b>Department code:</b>	MKKV
<b>Responsible instructor:</b>	Dr. Erzsébet Horváth

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### Course objectives:

The aim of the course is to acquire the best possible management of environmental resources with effective techniques.

### Course content:

1. The students will become familiar with the heuristic, algorithmic and evolutionary methods and the fuzzy logic and their use in environmental protection. 2. The goal is to become able to estimate the amount of an environmental resource in the case of renewable resources their rate of harnessing. Therefore the students will get an overall view of the global and local estimating techniques of energy sources. They will also study the planting, harvesting and utilizing methods regarding biomass type of resources and their optimal organization.

### Requirements, evaluation and grading:

Written test

### Required and recommended readings:

UNEP: One planet, many people, UNEP, 2005 (ISBN: 9-2807-2571-8) Bishop, Richard C.; Romano, Donato (Eds.): Environmental Resource Valuation, Springer, 1998 (ISBN: 0-7923-8143-2) Jerry M. Mendel: Uncertain Rule-Based Fuzzy Logic Systems: Introduction and New Directions, Prentice-Hall, 2001 (ISBN: 0-1304-0969-3)