



## COURSE DATASHEET

<b>Semester:</b>	2012/13/1
<b>Course:</b>	Environmental Protection, Safety Technique
<b>Code:</b>	VEMKKVB112M
<b>Responsible department:</b>	Department of Environmental Engineering
<b>Department code:</b>	MKKV
<b>Responsible instructor:</b>	Róbert Kurdi

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### Course objectives:

The aim of the course is to present the current environmental problems and their possible solutions. The materials are composed especially for non-engineer students. During the course the impacts of environmental problems on national and world economy are emphasized. In case of renewable energy resources the lectures on the alternatives are based on their economic benefits. In the second part of the course the review and current questions of emergency management, occupational safety, fire service and health protection are introduced beyond environmental protection.

### Course content:

1. Basis of environmental protection and its history 2. Air pollution 3. Drinking water and food scarcity in the world 4. Fossil fuel resources 5. Renewable energy resources (solar energy, wind power, hydropower and biomass) 6. World population and diseases 7. Nutrition (E-factors, GMO) 8. Legal and operational knowledge of safety technology 9. Tasks and authorities of emergency management 10. Basic regulations of occupational safety and health protection 11. Safety requirements of application, storage and transportation of hazardous materials and substances. 12. Safety requirements of machines and devices 13. Basic knowledge for fire service

### Requirements, evaluation and grading:

Written examination during the end-of-semester test period.

### Required and recommended readings:

A világ helyzete 1998, 2004 és 2006, Föld napja alapítvány, Budapest, 1998, 2005, 2006 D. Meadows: A növekedés határai – 30 év múltán, Kossuth Kiadó, Budapest, 2005 C.N.McDaniel – J.M.Gowdy: Az édenkert kiárúsítása – Typotex, Budapest, 2005