



## COURSE DATASHEET

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|--------------------------------|-----------------------------|
| <b>Semester:</b>               | 2013/14/1                   |
| <b>Course:</b>                 | Environmental health        |
| <b>Code:</b>                   | VEMKLIB114E                 |
| <b>Responsible department:</b> | Department of Limnology     |
| <b>Department code:</b>        | MKLI                        |
| <b>Responsible instructor:</b> | Dr. Rita Szakácsné Földényi |

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### Course objectives:

Acquaint the students with the different environmental factors influencing the human health. Overview of the principles of epidemiology and toxicology.

### Course content:

- Topics and methods of environmental health (definitions used in epidemiology and toxicology), the role of authorities. - More important knowledge in infectology. Nutrition. - Population pressure, developing nations. - Urbanization and its consequences. - Energy and environment. The traffic and its impacts. - The waste problem. Soil contaminants and their human impacts. - The types of agricultural activity and their negative consequences. Pesticides and their classification (most famous groups: fungicides, herbicides, insecticides). - The application problem of biotechnology; biological and chemical weapons. - Cancer. Endocrine disruptors. - Health problems caused by bad social habits. - The impact of noise and vibration to the human health. - Different type of radiations and their human impact. - Air and climatic changes, air pollution and its human impact. - Water and human health.

### Requirements, evaluation and grading:

Participation in the lectures, two written successful papers about the subject, oral examination at the end of the term. Grading is based on the papers as well as on the oral exam.

### Required and recommended readings:

Dési I. (szerk.): Környezetegészségtan, 2002 Takács Sándor: Az ember és környezete, 1994 Berencsi György: Környezetvédelem, környezethigiéne, a kemizálás környezethigiéneje, 1980 Nánási Irén (szerk.): Humánökológia, 1999 Loch Jakab - Nosticzius Árpád: Agrokémia és növényvédelmi kémia, 1992 Frumkin, H. (Ed.): Environmental Health – From Global to Local, 2005 Salvato, J. A.: Environmental Engineering and Sanitation, 1992