



## COURSE DATASHEET

<b>Semester:</b>	2015/16/1
<b>Course:</b>	Safety Technics and Risk Assessment I.
<b>Code:</b>	VEMKKVM222B
<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:

Introduction of the basics of safety technique and risk assessment. Identifying and evaluating hazards and risks, studying the methods concerning.

### Course content:

1. Notions of safety science: harm, probability and notions deduced from these: hazard, endangerment and safety, accident-like damage, risk.
2. The control mechanisms of safety, system approach to safety management, computer simulation methods of controls in safety science.
3. The tasks and goals of safety analysis, mathematical background, qualitative and quantitative risk assessment methods.
4. Risks of devices (technologies), environmental risks, man as the source of risks and subject of protection.
5. Legal regulation of risk management.
6. The elements of the risk assessment process: identifying hazards and defining who are endangered; qualitative and quantitative evaluation of risks; provision of risk mitigation, review on efficiency, regular supervising, documentation.
7. Social aspects of safety science.
8. Software in the field of safety science and risk management.

### Requirements, evaluation and grading:

According to the requirements of fulfillment.

### Required and recommended readings:

Kuhlmann, A.: Einführung in die Sicherheitswissenschaft. Verlag TÜV Rheinland GmbH. Köln, 1995.  
Haubert G.: A munkahelyi kockázateértékelés és kezelés gyakorlati kézikönyve. MKK. Budapest, 2003.  
MSZ 28001 és 28002: Munkahelyi egészségvédelmi és biztonsági irányítási rendszerek. MSZT, Budapest, 2003.



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### Required and recommended readings:

Varga Z.: Veszélyforrás-elemzés a vegyiparban. Veszprémi Egyetemi Kiadó, Veszprém, 1998.  
Kun-Szabó Tibor: Munkavédelem. 2. jav. kiadás. Veszprémi Egyetemi Kiadó, Veszprém, 2004.  
Nagy T.: Biztonság és biztonságstudomány. Kézirat. Magánkiadás. Kővágóörs, 2001.  
Nagy T.: Veszteségforrás-kutatás és a biztonság. Kézirat. Magánkiadás. Kővágóörs, 2004.