

Title of course: Occupational Safety and Health	NEPTUN-code: RKEBT1EBNE	Weekly classes: <i>lecture+workshop+lab work</i> 1+1+0	Credit: 3 Exam type: tm
Course leader: Lóránt Szabó, Dr.	Position: senior lecturer	Required preliminary knowledge (with Neptun code): none	
Curriculum:			
<p>The goals of the course are to make the prospective engineers know with work conditions that is safe and not harmful for the health in order to be able diagnosing dangers and apply measures for risks reduction based on their knowledge.</p> <p>The participants' rights and duty in triparty reconciliation. The concept of accidents and work accidents, the importance of investigation of work accidents. The goals, methodology and application of risk analysis of occupational safety and health (OSH). The role of ergonomics in OSH. The safe formation of work tools, dangers of maintenance, optimizing work environment in accordance with executed activity. Safety regulations for dangerous materials. Defensive capabilities of individual protective equipment that is used for reduction residual dangers of collective protection. Security technology of electricity, protection against electric shocks. Material handling and storage, security technology of pressure vessels. Concept and task of fire protection.</p>			
Professional competencies:			
<p>Knowledge of requirements and methods for health and safety, fire protection, safety engineering and remediation as related to the field of environment protection.</p> <p>Able to apply in practice as well the regulations and requirements of health and safety, fire protection, and safety engineering as related to their special field.</p> <p>Able to participate creatively in engineering work based on their multidisciplinary skills, as well as to adapt to continuously changing circumstances.</p> <p>Able to reveal deficiencies in the technologies applied and process risks and to initiate mitigation measures after getting familiarized with the technology concerned.</p> <p>Efforts to solve tasks and make management decisions by being aware of the opinions of the colleagues supervised, possibly in cooperation therewith.</p>			
Literature:			
1. OSH directives			
2. Guidance on risk assessment at work			
3. Framework Directive 89/391/EEC			
Megjegyzés:			