ÓBUDA UNIVERSITY Bánki Donát, Faculty of Mechanical and Safety Engineering	Department of Machine Construction and Safety Techniques

Name and code of the course: **Safety and ergonomics (BGBBERKTNC)** Credits *:2*
2016/2017 Spring, valid until called

Courses: **Mechanical, Mechatronical and Safety Engineering**

Responsible Lecturer:	**Gyula Szabó**	Lecturers:	**Gyula Szabó**
Pre-Courses:			

Hours/weeks	Lectures: **2**	Practicies: **0**	Laboratory: **0**	Consultation: **0**
Method of Controls (s,v,f):	**tests 2**			

Teaching material

Aims: *This program provides students with knowledge, skills and training on occupational safety and health. The course covers the occupational safety and health framework directive, major OSH directives and some related standards.*

SYLLABUS

Weeks	
1.	Introduction.
2.	OSH “Framework Directive". Tripartite consultation
3.	Guidance on risk assessment at work
4.	Temporary or mobile work sites, fisheries and agriculture
5.	Requirement of work equipment
6.	Requirement of personal protective equipment
7.	Requirement of workplaces and signs
8.	Provisions on workload, ergonomic risks (VDU, Handling of heavy loads involving risk of back injury)
9.	Psychosocial risks and exposure to biological agents
10.	Exposure to chemical agents and chemical safety
11.	Exposure to physical hazards
12.	Sector specific and worker related provisions
13.	Occupational health and safety management systems
14.	Accident investigation. Final test

Literature:

- Framework Directive 89/391/EEC
- OSH directives
- Guidance on risk assessment at work
- Lecture notes
- Gyula Szabó: Practical Ergonomics, Óbuda University, 2013
- Related standards

Requirements:

Two presentation (one on the directive and one on a standard)

Attendance at least 10 times

Validity of the semester and method of creating the semester mark:
Both test *with as minimum of 50 pt*

The grade is determined by the quality of presentations

Budapest 05 January 2017

Gyula Szabó
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Responsible Lecturer

List of related standards as of 26 November 2014

MSZ EN 1005 Safety of machinery Human physical performance

EN ISO 26800:2011 Ergonomics. General approach, principles and concepts

EN ISO 6385:2004 Ergonomic principles in the design of work systems

BS OHSAS 18001 Occupational Health and Management Systems

ISO 7243:1989 Hot environments. Estimation of the heat stress on working man, based on the WBGT-index (wet bulb globe temperature)

List of related legislation as of 26 November 2014

Directive 2009/104/EC – use of work equipment

Directive 99/92/EC - risks from explosive atmospheres

Directive 92/58/EEC - safety and/or health signs

Directive 89/656/EEC - use of personal protective equipment

Directive 89/654/EEC - workplace requirements

Directive 98/24/EC - risks related to chemical agents at work

Directive 91/322/EEC - indicative limit values

Regulation (EC) No 1907/2006 - REACH

Directive 2003/10/EC - noise

Directive 2002/44/EC - vibration

Directive 2000/54/EC - biological agents at work

Directive 90/270/EEC - display screen equipment

Directive 90/269/EEC - manual handling of loads

Directive 92/57/EEC - temporary or mobile construction sites