

## Assessment and subject description

<b>Óbuda University</b>		Kandó Kálmán Faculty of Electrical Engineering		Institute of Microelectronics and Technology	
<i>Subject name and code:</i> <b>Basics of safety technology, environment protection and quality assurance. KMEMI11AND</b>					
<b>Credits: 4</b>					
<b>Full-time, Spring Semester</b>					
<b>Course: Electrical Engineering</b>					
Responsible:	<b>Marianna Lendvay, Ph.D.</b>		Teaching staff:	<b>Balázs Kovács, Ph.D., Cecília Tamás-Nyitrai, Ph.D.</b>	
Prerequisites:					
Contact hours per week:	Lecture: <b>2</b>	Class discussion: 0	Lab hours: <b>0</b>	Tutorial: 0	
Assessment and evaluation:	<b>Exam</b>				
<b>Subject description</b>					
<i>Aims:</i> To offer a basic knowledge concerning the entitled topics, emphasizing their connections and influence on our daily life.					
<i>Topics to be covered:</i>					
<b>Topics</b>			<b>Week</b>	<b>Date</b>	<b>Lessons</b>
Basics of Quality			1.	February 11	2
Quality Planning, Quality Improvement			2.	February 18	2
Formal Quality Management Systems			3.	February 25	2
Lean Production System			4.	March 3	2
Occupational Health and Safety Management Systems			5.	March 10	2
<b>Test 1.</b>			6.	March 17	2
Environmental protection Part 1. – Definitions. The importance of photosynthesis and biodiversity			7.	March 24	2
Environmental protection Part 2. – Soil and water resources.			<b>8.</b>	<b>March 31</b>	2
Environmental protection Part 3. – Types of wastewater treatment. The main functions of the atmosphere			9.	April 7	2
<b>University Break</b>			10.	April 14	-
Environmental protection Part 4. - Ozone layer in stratosphere, Ozone Hole, Carbon Footprint. Light pollution (skyglow). Noise and How to reduce it?			11.	April 21	2
Environmental protection Part 5. – Waste and waste management. Renewable energy sources. New energy policy in EU. Types of power plants. ISO 14001:2015 - Environmental Management International Standard. Eco label. Life-cycle assessment.			<b>12.</b>	April 28	2
<b>Test 2</b>			13.	May 5	2
<b>Make-up Test</b>			<b>14.</b>	<b>May 12</b>	2

### **Assessment and evaluation**

Requirements of the signature:

To attend the lectures is obligatory. Rules of education and exam directory (TVSZ) are the guidelines. Above that it is required to pass two tests. If failed, tests can be rewritten in week 14 or/and once more within the first 10 days of the examination period.

Type of exam: Written and oral

Evaluation of the exam:

To pass the exam to reach at least 50% is required.

### **Suggested materials**

The lecture's materials are the basics of the learning process. They could be found on the concerned web sites of the university.