

Assessment and subject description

Óbuda University			Institute of Microelectronics and Technology		
Kandó Kálmán Faculty of Electrical Engineering					
Subject name and code: Basics of safety technology, environment protection and quality assurance. KEEMI5ABNE					
Credits: 3					
Full-time, Spring Semester					
Course: Electrical Engineering					
Responsible:		Marianna Lendvay, Ph.D.		Teaching staff: Balázs Kovács, Ph.D., Cecília Tamás-Nyitrai, Ph.D.	
Prerequisites:					
Contact hours per week:	Lecture: 2	Class discussion: 0	Lab hours: 0	Tutorial: 0	
Assessment and evaluation:	Semester mark				
Subject description					
<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>					
Topics			Week		Lessons
Environmental protection Part 1. – Definitions. The importance of photosynthesis and biodiversity			1.		2
Environmental Protection Part 2. – Soil and water resources.			2.		2
Environmental protection Part 3. – Types of wastewater treatment. The main functions of the atmosphere			3.		2
Environmental protection Part 4. - Ozone layer in stratosphere, Ozone Hole, Carbon Footprint. Light pollution (skyglow). Noise and How to reduce it?			4.		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.			5.		2
UNIVERSITY BREAK			6.		2
Test1			7.		2
Basics of Quality			8.		2
Quality Planning, Quality Improvement			9.		2
Formal Quality Management Systems			10.		2
Lean Production System			11.		2
Occupational Health and Safety Management Systems			12.		2
Test 2			13.		2
Make-up Test			14.		2

Assessment and evaluation

Requirements of the signature:

Due to the governmental and university precautions concerning the Covid-19 epidemic, the course will be completed as a distance learning course. According to this situation, the students are asked to learn the topics published in the Moodle system. To prove their weekly study, to perform the weekly (automated) tests are required.

The Test1 and Test2 will be organized applying the Moodle system, as well.

To complete the course, the two Tests should be fulfilled at least with mark 2.

Type of exam: -

Evaluation of the exam:

-

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.