

CURRICULUM PARTITION AND REQUIREMENT SYSTEM

OBUDA UNIVERSITY

Sándor Rejtő Faculty of Light Industry and Environmental Engineering		Institute of Media Technology and Light Industry	
<i>Subject:</i>	THEORY AND MEASUREMENT OF COLOR	<i>Neptun-code:</i>	RMTMCANVNC
<i>Lecturer:</i>	Dr. Ákos Borbély	ECTS:	3
<i>Weekly classes:</i>	2 hours of lecture	Language:	English

SUBJECT CONTENT

Education goals:

The objective of this course is to give an overview of topics of color theory color science and color measurement. From the physical properties of light to the quantitative description of colors perceived by the human observer we discuss a wide range of phenomena that influence our color vision. Color measurement is demonstrated with laboratory devices.

Topics of the practice work with terms and description:

Week	Topic with brief description:
1.	The role of color in everyday life; definition of color stimuli, perceived color,
2.	Optical radiation, types of spectra,
3.	Introduction to radiometry and photometry
4.	Light sources
5.	Human color vision
6.	Color order systems
7.	CIE colorimetry
8.	CIE colorimetry
9.	CIE colorimetry
10.	Color measurement demonstration
11.	Color related visual phenomena, chromatic adaptation
12.	Standard color management
13.	Color management demonstration
14.	Test

BIBLIOGRAPHY

PPT files in the e-learning system at the homepage of Obuda University.